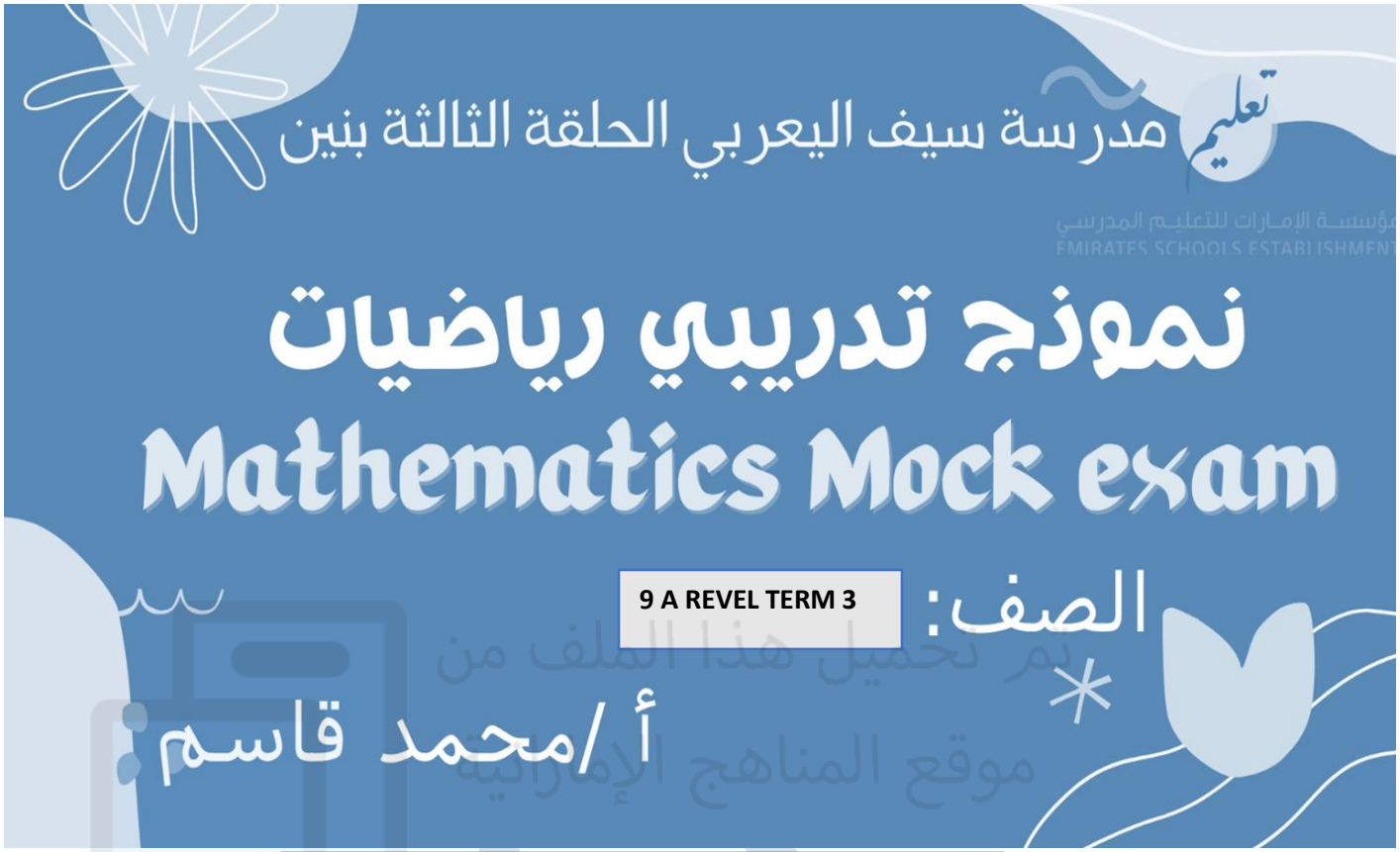
الملف أسئلة نموذج تدريبي ريفيل
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف التاسع المتقدم ⇦ رياضيات ⇦ الفصل الثالث

روابط مواقع التواصل الاجتماعي بحسب الصف التاسع المتقدم			
			
روابط مواد الصف التاسع المتقدم على تلغرام			
الرياضيات	اللغة الانجليزية	اللغة العربية	التربية الاسلامية

المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الثالث	
1	أسئلة الاختبار التحريبي ريفيل
2	حل تجميعة أسئلة وفق الهيكل الوزاري الحديد ريفيل
3	مراجعة نهاية الفصل وفق الهيكل الوزاري ريفيل
4	حل تجميعة أسئلة وفق الهيكل الوزاري ريفيل
5	تجميعة أسئلة وفق الهيكل الوزاري الحديد



الهيكل هو المرجع الأساسي وهذا النموذج بغرض التدريب

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Find the next term in the sequence.

(1) 1. $4, 8, 12, 16, 20$

a. 24 b. 22 c. 25 d. 30

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(2) $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}$

a. $\frac{1}{16}$ b. 16 c. $\frac{1}{10}$ d. 10

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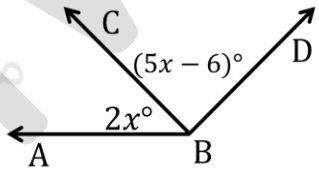
(3) Find m∠ABC if m∠ABD = 120°

a. 18 b. 36

c. 84 d. 120



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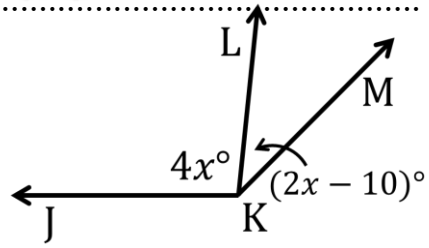
(4) Find m∠LKM if m∠JKM = 140°

a. 40 b. 100

c. 25 d. 140



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(5) Refer to the figure to identify a segment <u>skew</u> to ZY

a. $\overline{WU}$ b. WX c. $\overline{UV}$ d. $\overline{TZ}$

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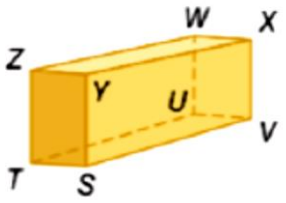

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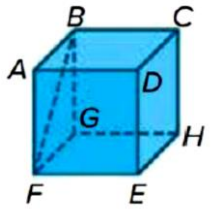
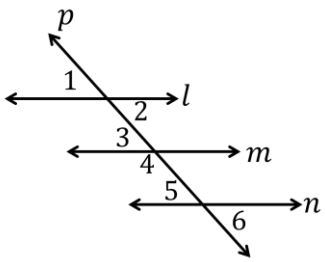
(6) Refer to the figure to identify a segment line parallel to $\overleftrightarrow{EH}$

a. $\overleftrightarrow{CD}$ b. $\overleftrightarrow{CH}$ c. $\overleftrightarrow{ED}$ d. $\overleftrightarrow{BG}$



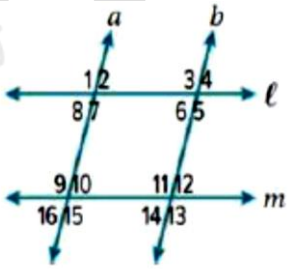
(7) Determine which lines, if any, are parallel.so that $m\angle 1 \cong m\angle 5$

a. $p.l$ b. n, m c. m, l d. n, l



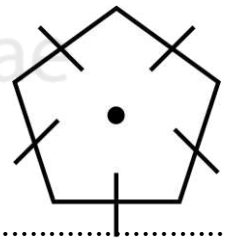
(8) Determine which lines, if any, are parallel. so that $\angle 9 \cong \angle 11$

a. L, m b. a, b c. L, b d. m, a

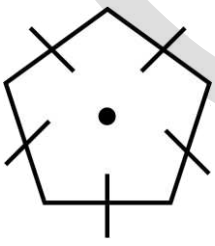


(9) Determine Order and Magnitude of Symmetry

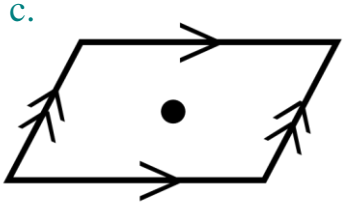
a. order = 5 magnitude = 72°
b. order = 2 magnitude = 180°
c. order = none magnitude = none

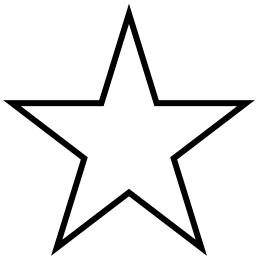


(10) Which figure has point symmetry?

a. 

b. 

c. 

d. 

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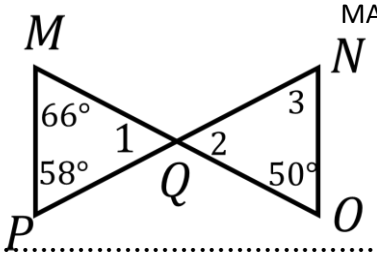
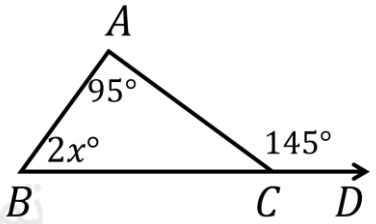
(11) Find $m\angle 3$



a. 74 b. 56

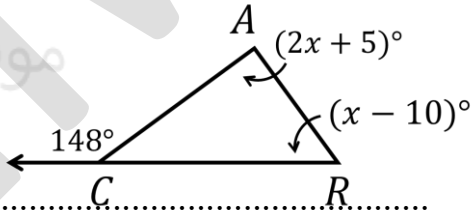
c. 50 d. 66

(12) $m\angle ABC$



a. 50 b. 25 c. 30 d. 95

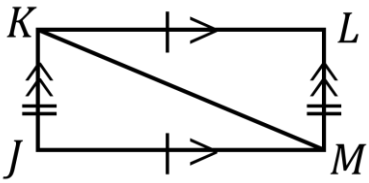
(13) Find the value of x



a. $x = 5$ b. $x = 51$

c. $x = 148$ d. $x = 180$

(14) Write a congruence statement.

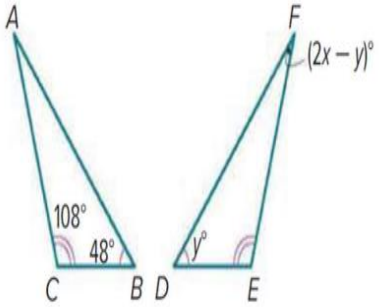


a. $\Delta JKM \cong \Delta LMK$ b. $\Delta JMK \cong \Delta MLK$

c. $\Delta JMK \cong \Delta KML$

(15) In the diagram, $\Delta ABC \cong \Delta FDE$

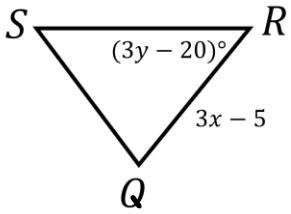
Find the value of x and y

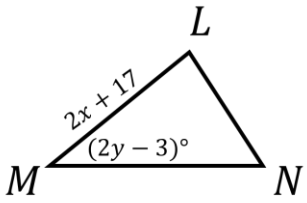


a. $x = 36 \quad y = 48$ b. $x = 48 \quad y = 36$

c. $x = 108 \quad y = 48$ d. $x = 72 \quad y = 96$

(16) In the diagram, $\Delta LMN \cong \Delta QRS$. find x, y.





a. $x = 17\,, y = 37$
b. $x = 22\,, y = 17$
c. $x = 77\,, y = 22$

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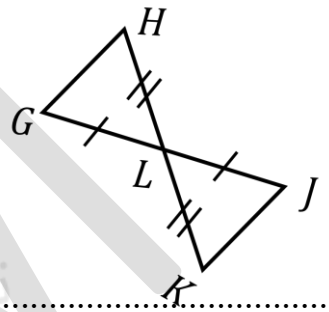
(17) In the diagram $HL \cong LK,\ LJ \cong LG$

Determine which postulate can be used to prove that the triangles are congruent according to the information given.



a. *SAS* b. *SSS* c. *AAS* d. *ASA*

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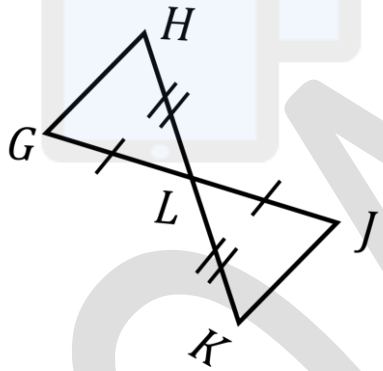
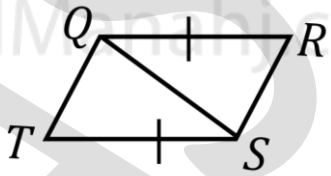
(18) Which of the triangles are congruent

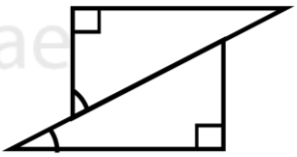
a.



b.



c.



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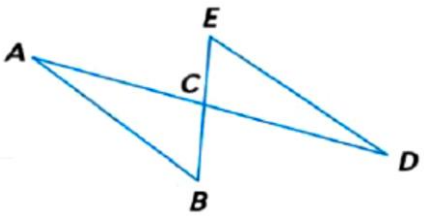
(19) Given: C is the midpoint of both $\overline{BE}$ and $\overline{AD}$.

Name a pair of congruent triangles.



a. $\Delta ABC \cong \Delta CDE$ *b.* $\Delta ABC \cong \Delta DEC$
c. $\Delta ABC \cong \Delta ECD$ *d.* $\Delta ABC \cong \Delta EDC$

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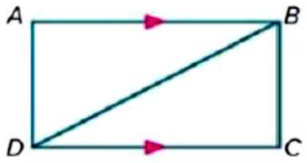
(20) In the diagram

Determine which postulate can be used to prove that the triangles are congruent according to the information given.

Given: $\overline{AB} \parallel \overline{CD}$, $\angle CBD \cong \angle ADB$



a. SAS b. SSS c. AAS d. ASA

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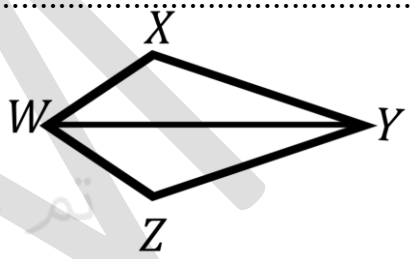
(21) Given: $\overline{WY}$ bisects $\angle XWZ$ and $\angle XYZ$

Determine which postulate can be used to prove that the triangles are congruent.



a. SAS b. SSS c. AAS d. ASA

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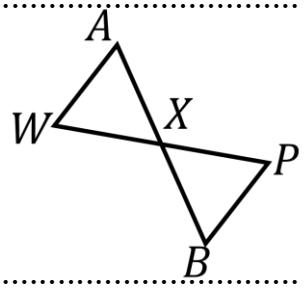
(22) Given: $\overline{WP}$ and $\overline{AB}$, bisect each other, Which postulate can be used to prove that the triangles are congruent?



a. SAS b. SSS c. AAS d. ASA

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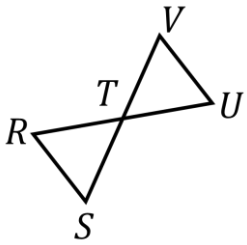
(23) Given: $\angle S \cong \angle V$, and T is the midpoint of $\overline{SV}$.

What additional information could be used to prove that $\Delta RTS \cong \Delta UTV$



a. $\angle S \cong \angle V$ b. $\overline{ST} \cong \overline{TV}$ c. $\angle RTS \cong \angle VTU$

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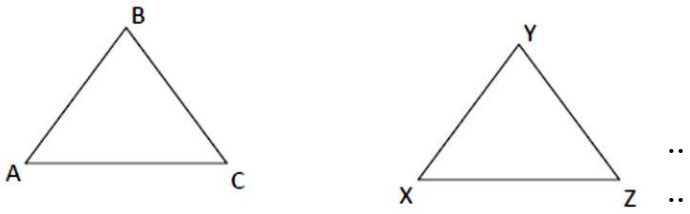
(24) In the diagram, $\angle C \cong \angle Z$ and $\overline{AC} \cong \overline{XZ}$.

What additional information could be used to prove that $\Delta ABC \cong \Delta XYZ$?

a. $\angle X \cong \angle A$ b. $\overline{BC} \cong \overline{XY}$

c. $\overline{AB} \cong \overline{YZ}$ d. $\angle Y \cong \angle A$



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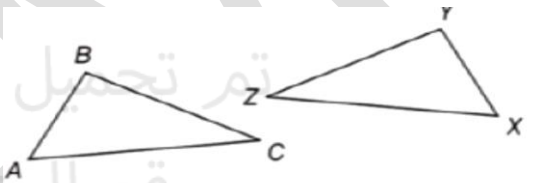
(25) In the diagram, $\angle A \cong \angle X$ and $\angle B \cong \angle Y$

What additional information could be used to prove that $\Delta ABC \cong \Delta XYZ$?

a. $\angle X \cong \angle C$ b. $\overline{AB} \cong \overline{XY}$

c. $\overline{AB} \cong \overline{YZ}$ d. $\angle Y \cong \angle A$



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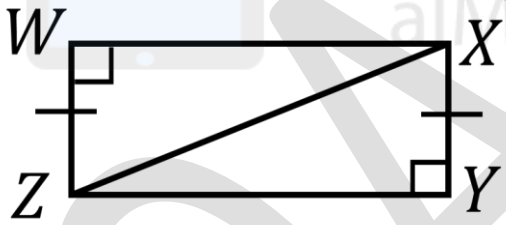
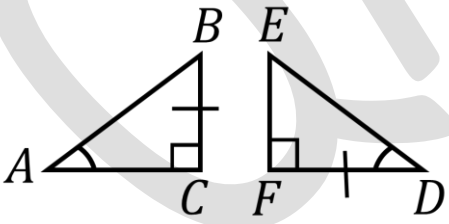
(26) Determine pair of triangles is congruent.

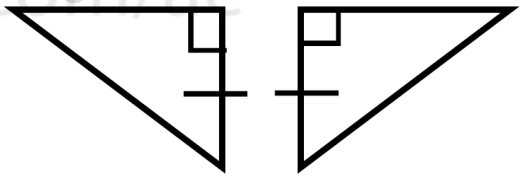
a.



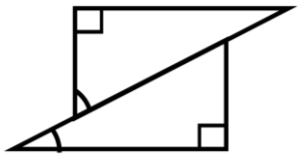
b.



c.



d.



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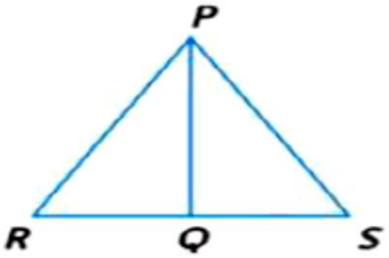
(27) Given: Q is the midpoint of $\overline{RS}$, $\overline{PS} \cong \overline{PR}$

Name a pair of congruent triangles.



a. $\Delta RQP \cong \Delta SQP$ *b.* $\Delta RQP \cong \Delta SPQ$

c. $\Delta RQP \cong \Delta QPS$ *d.* $\Delta RQP \cong \Delta PQS$

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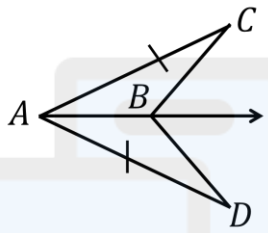
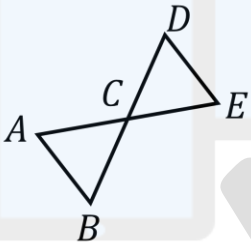
(28) Which pair of triangles have enough information given to prove that the triangles are congruent using SSS or SAS.

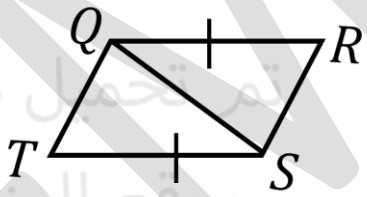
a.



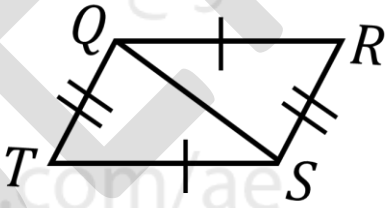
b.



c.



d.



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(29) Use the following statements to write a compound statement for

$q \vee \sim P$

q: A week has seven days.

p : There are 20 hours in a day.

a. A week has seven days, or there are 20 hours in a day.

b. A week has seven days, and there are 20 hours in a day.

c. A week has seven days, or there aren't 20 hours in a day.

d. A week hasn't seven days, and there are 20 hours in a day.

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(30) Use the following statements

p: $-3-2=-5$.

q: Vertical angles are congruent.

r: $2+8>10$ WHICH OF THE THESE COMPOUND STATEMENTS IS FALSE

a.) p *and* q
b.) $p \wedge r$.
c.) $q \ \ V \sim r$
d.) $\sim r \ \ V \sim p$

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(31) Determine which statement follows logically from the given statements.

(1) If you do not get enough sleep, then you will be tired.

(2) If you are tired, then you will not do well on the test.

a. If you do not do well on the test, then you did not get enough sleep.
b. There is no valid conclusion.
c. If you are tired, then you will not get enough sleep.
d. If you do not get enough sleep, then you will not do will on the test.

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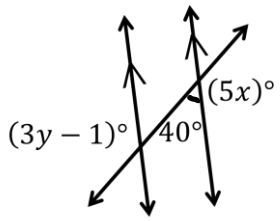
(32) Find the value of x and y



a. $x=28\,, y=47$
b. $x=47\,, y=40$
c. $x=47\,, y=28$
d. $x=40\,, y=8$

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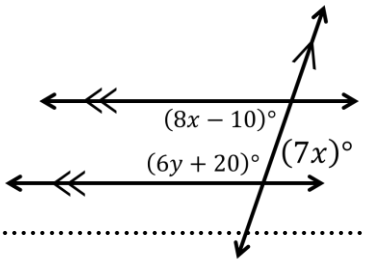
(33) Find the value of x and y



a. $x = 10\,, y = 15$ b. $x = 20\,, y = 30$

c. $x = 15\,, y = 10$ d. $x = 24\,, y = 12$

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(34) Write an equation in slope-intercept form for each line described.

passes through $(-7,-4)$, perpendicular to $y = \frac{1}{2}x + 9$

a. $y = -2x - 18$ b. $y = 2x + 18$

c. $y = \frac{1}{2}x + 10$ d. $y = -\frac{1}{2}x + 10$

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(35) Write an equation in slope-intercept form for each line described.

passes through $(6, 2)$, parallel to $y = -\frac{2}{3}x + 1$

a. $y = -\frac{2}{3}x + 6$ b. $y = \frac{3}{2}x + 6$

c. $y = -\frac{3}{2}x + 2$ d. $y = \frac{3}{2}x + 2$

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(36) Determine which of the following coordinates would make $\overline{AB}$ and $\overline{CD}$ are perpendicular.

a. $A(8,2), B(4,1), C(3,11), D(2,9)$

b. $A(4,2), B(3,1), C(6,0), D(10,8)$

c. $A(1,4), B(5,5), C(9,-10), D(-6,-5)$

d. $A(8,-2), B(4,-1), C(3,11), D(-2,-9)$

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(37) Find the distance between the two parallel lines with the given equations.

$x = -5$, $x = 4$

a. 8 *b.* 9 *c.* 5 *d.* 1

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(38) Find the distance between the two parallel lines with the given equations.

$y = 7$, $y = -1$

a. 8 *b.* 9 *c.* 5 *d.* 1

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(39) Find the distance between each pair of parallel lines with the given equations.

$y = 3x$, $y = 3x + 10$ hint $d = \frac{|C_2 - C_1|}{\sqrt{1+m^2}}$

a. $\sqrt{10}$ *b.* $\sqrt{7}$ *c.* $\sqrt{3}$

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(40) The image of $F(-3, 1)$, under a translation vector. $\langle 5|, -1\rangle$

a. $F'(2, 0)$ *b.* $F'(0, 2)$ *c.* $F'(8, 2)$ *d.* $F'(0, -2)$

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(41) The image of $A(-3, -5)$ under a translation is $A'(6, -1)$. Find the image of $B(3, -2)$ under the same translation.

a. $B'(12, 2)$ *b.* $B'(-12, -2)$ *c.* $B'(2, -12)$ *d.* $B'(6, -1)$

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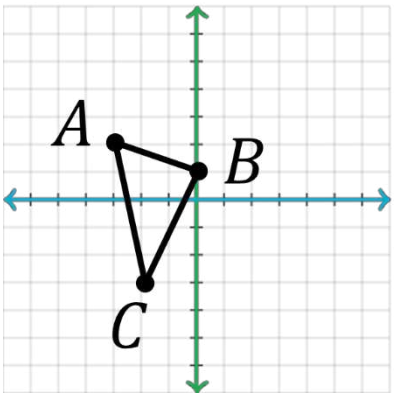
(42) If the triangle ABC is reflected across the line $y = x$ to become $A'B'C'$ what are the coordinate of A'



a. $A'(2,-3)$ *b.* $A'(-3,2)$

c. $A'(-3,-2)$ *d.* $A'(-3,2)$

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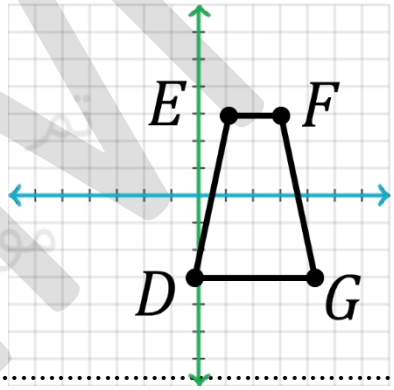
(43) If the trapezoid EDGF is reflected

across the line $x = -1$ to become $E'D'G'F'$

what are the coordinate of D'



a. $D'(-2,-3)$ *b.* $D'(-3,2)$

c. $D'(-3,-2)$ *d.* $D'(-3,2)$

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(44) Determine the coordinates of $S(-7,1)$ after a reflection in the line $y = 3$.

a. $S'(-7,5)$ b. $S'(-3,5)$ c. $S'(7,-4)$ d. $S'(7,4)$

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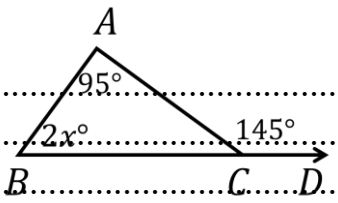
(45) $m\angle ABC$

a. 50 *b.* 25 *c.* 30 *d.* 95



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(46) TOWERS A lookout tower sits on a network of struts and posts. Leslie measured two angles on the tower. If $m\angle 1 = (7x - 7)°$, $m\angle 2 = (4x + 2)°$, and $m\angle 3 = (2x + 6)°$, what is $m\angle 1$?

a. 98 *b.* 25 *c.* 30 *d.* 95

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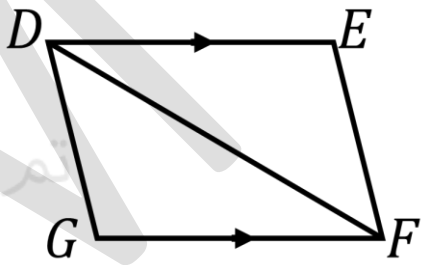
(47) Given: $\overline{DE} \| \overline{FG}, \angle E \cong \angle G$

Prove: $\Delta DFG \cong \Delta FDE$

Determine which postulate can be used to prove that the triangles are congruent.



a. SAS *b. SSS* *c. AAS* *d. ASA*

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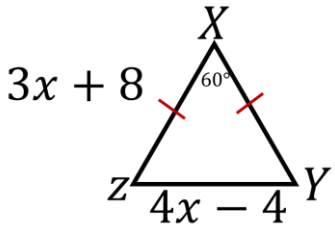
(48) Find the value of x.



a. 12 *b.* 25

c. 60 *d.* 40

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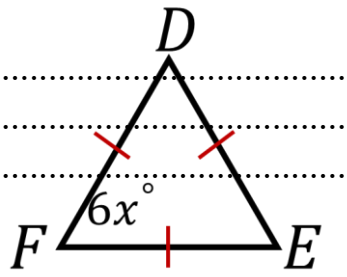
(49) Find the value of x.

a. 10 *b.* 12 *c.* 15 *d.* 30



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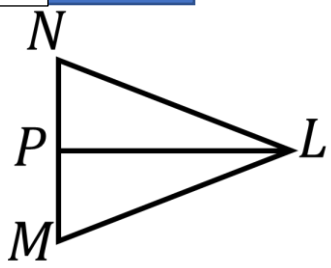
PLEASE SHOW YOUR STEPS

(50) Write two- column proof

Given: $NP = PM, \overline{NP} \perp \overline{PL}$

Prove: $\Delta NPL \cong \Delta MPL$



statements	Reason
	GIVEN
$\Delta NPL \cong \Delta MPL$	

(51) Determine whether $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are parallel, perpendicular, or neither for $A(3,6), B(-9,2), C(5,4), and\ D(2,3)$

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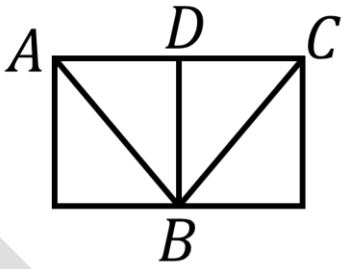
(51) COMPLETE THE PROOF

Given: $\overline{AB} \cong \overline{CB}, D$ is the midpoint of $\overline{AC}$, Prove: $\Delta ABC \cong \Delta CBD$

solution:



Given: $\overline{AB} \cong \overline{CB}, D$ is the midpoint of $\overline{AC}$.

Prove: $\Delta ABD \cong \Delta CBD$

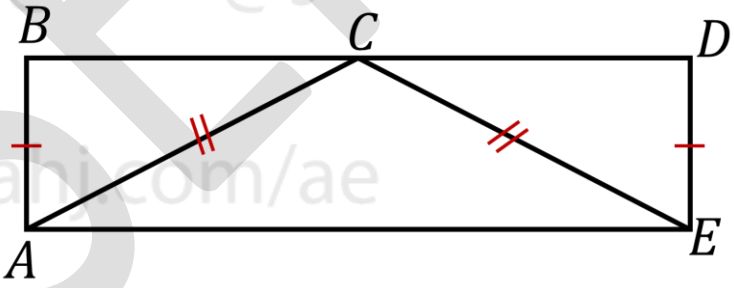
Proof:

Statements	Reason
	Given
	. Definition of midpoint
$\overline{\boldsymbol{BD}} \cong \overline{\boldsymbol{BD}}$	
$\Delta \boldsymbol{ABD} \cong \Delta \boldsymbol{CBD}$	

(52) two-column proof

Given: $\overline{AB} \cong \overline{ED}, \overline{CA} \cong \overline{CE}, \overline{AC}$ bisects $\overline{BD}$

Prove: $\Delta ABC \cong \Delta EDC$



Statements	Reason
	Given
	. Definition of segment bisector
	Midpoint Theorem
$\Delta ABC \cong \Delta EDC$	

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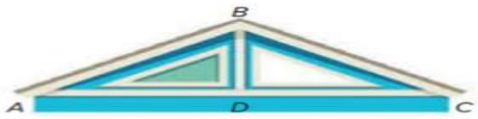
. GAMING Devontae is building a house in a simulation video game. He wants the roof of the house and the main support beam to create congruent triangles. If $\overline{BD} \perp \overline{AC}$ and $\overline{BD}$ bisects $\overline{AC}$, write a two-column proof to prove $\triangle ABD \cong \triangle CBD$.



SOLUTION:

Given: $\overline{BD} \perp \overline{AC}$, $\overline{BD}$ bisects $\overline{AC}$.

Prove: $\triangle ABD \cong \triangle CBD$

Proof:

Statements	Reason
	Given
$\Delta ABD \cong \Delta CBD$	

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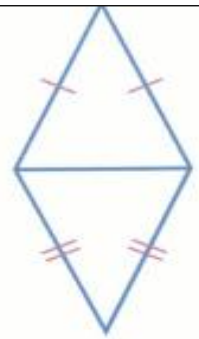
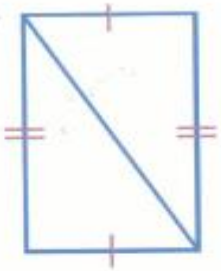
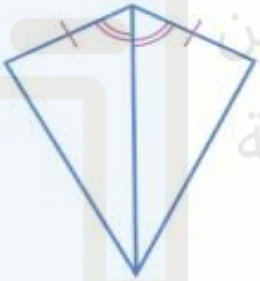
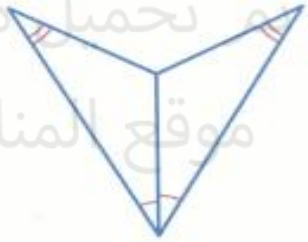
Determine which postulate can be used to prove that the triangles are congruent.IF NOT WRITE CANNOT BE PROVED.

BONUS









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