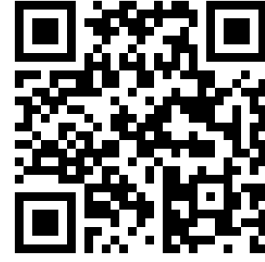


تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف حل أسئلة الاختبار التجريبي نخبة

موقع المناهج ⇨ المناهج الإماراتية ⇨ الصف الثامن ⇨ رياضيات ⇨ الفصل الثالث

روابط مواقع التواصل الاجتماعي بحسب الصف الثامن



روابط مواد الصف الثامن على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الثالث

حل أسئلة الاختبار التجريبي	1
حل أسئلة الاختبار التجريبي ريفيل	2
إجابات أسئلة الاختبار التجريبي	3
حل أسئلة وفق الهيكل الوزاري نخبة	4
أسئلة الاختبار التجريبي نخبة	5

رياضيات 2023

الإختبار التجريبي 8 نخبه -2023

Mr Tarek Ali

0562854282

الأستاذ/ طارق علي -0562854282



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جميع الجروبات هنا



Find the next term in the sequence.

4, 8, 12, 16, 20

$+4 +4 +4 +4$

Mr Tarek Ali

$$20 + 4 = 24$$

A	24	<input checked="" type="checkbox"/>
B	22	<input type="checkbox"/>
C	25	<input type="checkbox"/>
D	30	<input type="checkbox"/>





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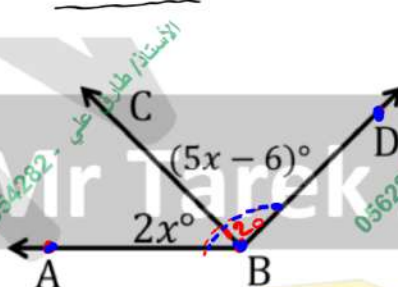
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Find $m\angle ABC$ if $m\angle ABD = 120^\circ$



$$2x + 5x - 6 = 120$$

$$7x - 6 = 120$$

$$+6 \quad +6$$

$$7x = 126$$

$$x = \frac{126}{7}$$

$$x = 18$$

$$\begin{array}{r} 18 \\ 7 \overline{) 126} \\ \underline{7} \\ 56 \\ \underline{56} \\ 0 \end{array}$$

A	18
B	84
C	120
D	36

$$m\angle ABC = 2x$$

$$= 2(18)$$

$$= 36$$



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جميع الجوابات هنا

Use the following statements to write a compound statement for

or
 $q \vee \sim P$

q: A week has seven days.

p: There are 20 hours in a day.

$q \rightarrow \text{True}$

or
 \vee

$\sim P$

there are not 20 hours in a day
True



A	A week has seven days, or there are 20 hours in a day.
B	A week has seven days, or there aren't 20 hours in a day.
C	A week has seven days, and there are 20 hours in a day.
D	A week hasn't seven days, and there are 20 hours in a day.

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

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

$m \Rightarrow \text{Flipse} \Rightarrow \text{change sign} \Rightarrow \frac{1}{2} \rightarrow \frac{2}{1} = 2 \Rightarrow \boxed{-2}$

$* y - y_1 = m(x - x_1)$

$y + 4 = -2(x + 7)$

$y + 4 = -2x - 14$

$y = -2x - 14 - 4$

$y = -2x - 18$

A	$y = \frac{1}{2}x + 10$
B	$y = -\frac{1}{2}x + 10$
C	$y = -2x - 18$
D	$y = 2x + 18$



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جميع الجروبات هنا



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

q: Vertical angles are congruent. True

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

A	$q \vee \sim r$ True
B	$\checkmark p$ and $q \checkmark$ True
C	$\checkmark p \wedge r$ false \rightarrow False
D	$\checkmark \sim r \vee \sim p$ \rightarrow True.

\wedge
and

True \wedge True = True

True \vee True = True



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جميع الجوابات هنا



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	There is no valid conclusion.
B	If you do not do well on the test, then you did not get enough sleep.
C	<input checked="" type="checkbox"/> If you do not get enough sleep, then you will not do well on the test.
D	If you are tired, then you will not get enough sleep.

Conclusion

invalid

valid

انذارني لذي
يا تي هم لذي ابو

انذارني لذي
يا تي بهداه لذي

If

Then



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If the trapezoid EDGF is reflected

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

what are the coordinate of D'

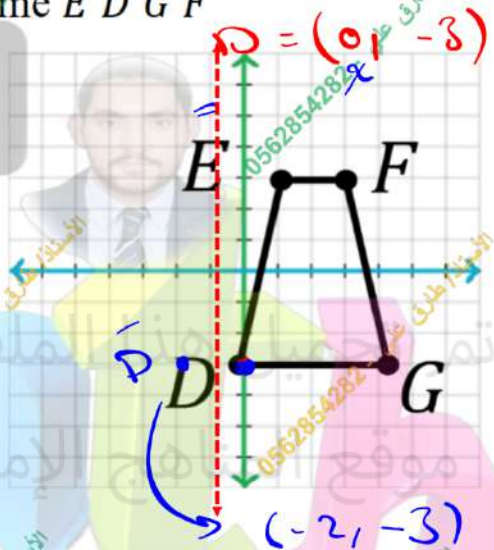
subtract

$$-1 - 0 = -1$$

double $-2 + 0 = -2$

$$D(-2, -3)$$

A	$D'(-3, 2)$
B	$D'(-2, -3)$
C	$D'(-3, 2)$
D	$D'(-3, -2)$





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جميع الجوابات هنا



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

A	$(-7, 5)$ ✓
B	$(5, -7)$
C	$(-3, 5)$
D	$(7, 4)$

① Subtract $3 - 1 = 2$
 ② double = $2 + 1 = 3$ → $(-7, 5)$

Find the distance between the two parallel lines with the given equations.

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



$d = |-5 - 4| = |-9| = 9$

A	1
B	8
C	5
D	9 ✓

① $d = \sqrt{(-5 - 4)^2 + (0 - 0)^2} = \sqrt{(9)^2} = \sqrt{81} = 9$



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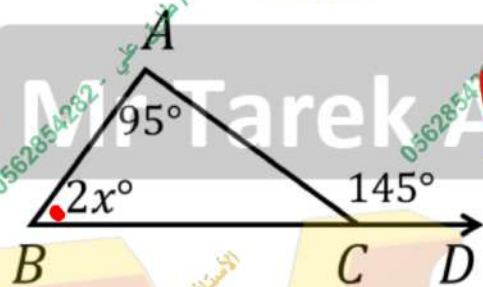
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جميع الجوابات هنا



Find $m\angle ABC$

exterior Angles



$$145 = 2x + 95$$

$$\underline{-95}$$

$$50 = 2x$$

$$\boxed{x = 25}$$

$$* m\angle ABC = 2x \Rightarrow 50$$

A	25
B	30
C	50
D	95



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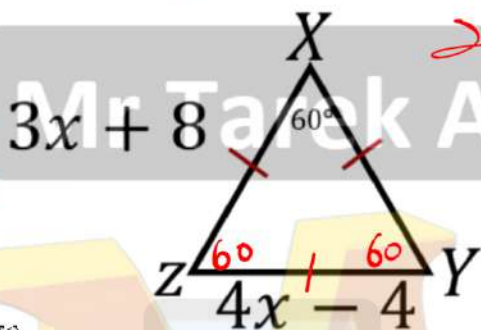
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جميع الجوابات هنا



Find the value of x .



إذا كان طول الضلعين متساويين
 Congruent
 وزاوية = 60
 فإن شكل الأضلاع Congruent

$$3x + 8 = 4x - 4$$

$$8 + 4 = 4x - 3x$$

A	25
B	12
C	40
D	60

$$12 = x$$



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جميع الجوابات هنا



Find $m\angle 3$



$m\angle 1 = 180 - 66 - 58 = 114 - 58 = 56$

$\angle 1 = \angle 2$

As vertical Angles

$m\angle 3 = 180 - 50 - 56$

A	50
B	56
C	66
D	74





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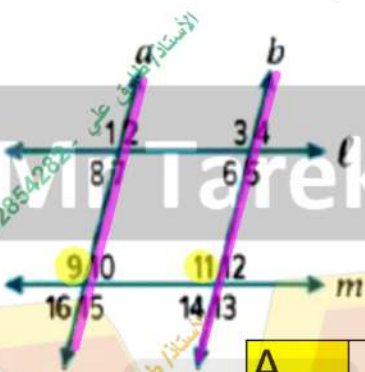
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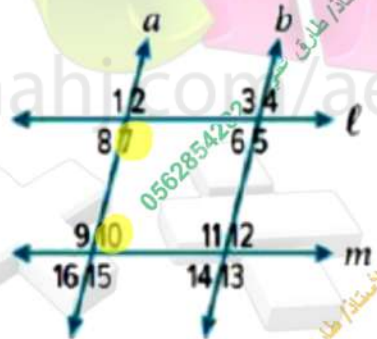
Determine which lines, if any, are parallel. so that $\angle 9 \cong \angle 11$



A	L, m
B	L, b
C	a, b
D	m, a

Name the relationship:

$\angle 7$, $\angle 10$



A	corresponding
B	consecutive interior
C	alternate interior
D	alternate exterior



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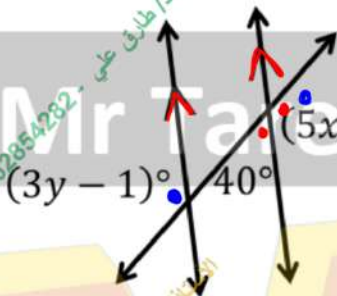
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جميع الجوابات هنا



Find the value of x and y .



$$5x + 40 = 180$$

$$-40 \quad -40$$

$$\frac{5x}{5} = \frac{140}{5} \Rightarrow x = 28$$

$x = 28$

$3y - 1 = 5x$ Alternate exterior

$$3y - 1 = 140$$

$$+1 \quad +1$$

$$3y = 141$$

$$\frac{3y}{3} = \frac{141}{3}$$

$y = 47$

$$\begin{array}{r} 47 \\ 3 \overline{) 141} \\ \underline{-126} \\ 21 \\ \underline{-21} \\ 0 \end{array}$$

A	$x = 47, y = 40$
B	$x = 28, y = 47$
C	$x = 40, y = 8$
D	$x = 47, y = 28$



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Determine which of the following coordinates would make \overline{AB} and \overline{CD} are perpendicular. $\Rightarrow m_1 \times m_2 = -1$, parallel $m_1 = m_2$

A	$A(8,2), B(4,1), C(3,11), D(2,9)$
B	$A(1,4), B(5,5), C(9,-10), D(-6,-5)$
C	$A(4,2), B(3,1), C(6,0), D(10,8)$
D	$A(8,-2), B(4,-1), C(3,11), D(-2,-9)$

Ⓐ $m_{AB} = \frac{2-1}{8-4} = \frac{1}{4}$ Not

$m_{CD} = \frac{11-9}{3-2} = \frac{2}{1} = 2$ Not

Ⓑ $m_{AB} = \frac{5-4}{5-1} = \frac{1}{4}$ Not

$m_{CD} = \frac{-5+10}{-6-9} = \frac{5}{-15} = -\frac{1}{3}$ Not

Ⓒ $m_{AB} = \frac{2-1}{4-3} = \frac{1}{1} = 1$ Not

$m_{CD} = \frac{8-0}{10-6} = \frac{8}{4} = 2$ Not

Ⓓ $m_{AB} = \frac{-2+1}{8-4} = -\frac{1}{4}$, $m_{CD} = \frac{11+9}{3+2} = \frac{20}{5} = 4$

$-\frac{1}{4} \times 4 = -1$ ✓



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

$$(-3 + 5, 1 - 1)$$

$$(2, 0)$$

A	(2,0) ✓
B	(0,2)
C	(8,2)
D	(0,-2)

Determine Order and Magnitude of Symmetry



$$\text{order} = 2$$

$$\text{Magnitude} = \frac{360}{2} = 180$$

A	Not Rotational Symmetry	
B	order = 5	magnitude = 72°
C	order = 2	magnitude = 180°
D	order = none	magnitude = none



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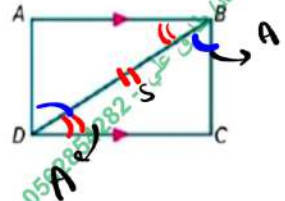


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Determine which postulate can be used to prove that the triangles are congruent according to the information given.

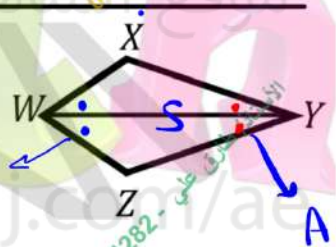
Given: $\overline{AB} \parallel \overline{CD}$, $\angle CBD \cong \angle ADB$



A	SSS
B	SAS
C	AAS
D	ASA

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

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



A	SSS
B	SAS
C	AAS
D	ASA



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COMPLETE THE PROOF

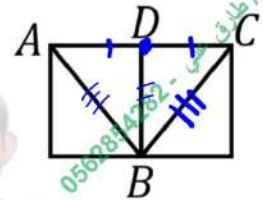
Given: $\overline{AB} \cong \overline{CB}$, D is the midpoint of \overline{AC} , Prove: $\triangle ABC \cong \triangle CBD$

solution:

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

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

Proof:

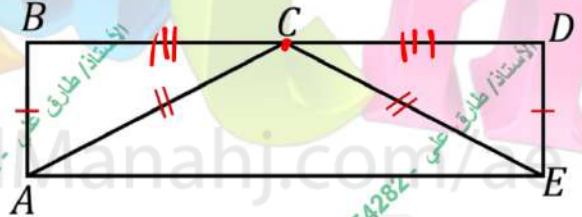


Statements	Reason
$\overline{AB} \cong \overline{CB}$, D is Mid Point	Given
$\overline{AD} \cong \overline{DC}$. Definition of midpoint
$\overline{BD} \cong \overline{BD}$	reflexive property.
$\triangle ABD \cong \triangle CBD$	by SSS

(52) two-column proof.

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

Prove: $\triangle ABC \cong \triangle EDC$



Statements	Reason
$\overline{AB} \cong \overline{ED}$, $\overline{CA} \cong \overline{CE}$, \overline{AC} bisects \overline{BD}	Given
C is Mid Point of \overline{BD}	. Definition of segment bisector
$\overline{BC} \cong \overline{EC}$	Midpoint Theorem
$\triangle ABC \cong \triangle EDC$	by SSS.



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4. Line l contains points $(4, -1)$ and $(4, 9)$. Point P has coordinates $(1, 6)$.

① $m = \frac{9 + 1}{9 - 4} = \frac{10}{5}$ undefined

$x = x_1 \rightarrow x = 4$

② perpendicular $m = \frac{10}{0} \rightarrow \frac{0}{10}$

$|m = 0|$

$|y = y_1|$

$|y = 6|$

$(4, 6)$

③ distance $(4, 6)$ $(1, 6)$

$d = \sqrt{(4 - 1)^2 + (6 - 6)^2}$

$= \sqrt{3^2}$

$\Rightarrow d = 3 \text{ units}$