

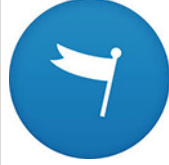
شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



حل مراجعة عامة وفق الهيكل الوزاري - ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف الثامن ← رياضيات ← الفصل الثاني ← الملف

التواصل الاجتماعي بحسب الصف الثامن



روابط مواد الصف الثامن على تلغرام

[الرياضيات](#)

[اللغة الانجليزية](#)

[اللغة العربية](#)

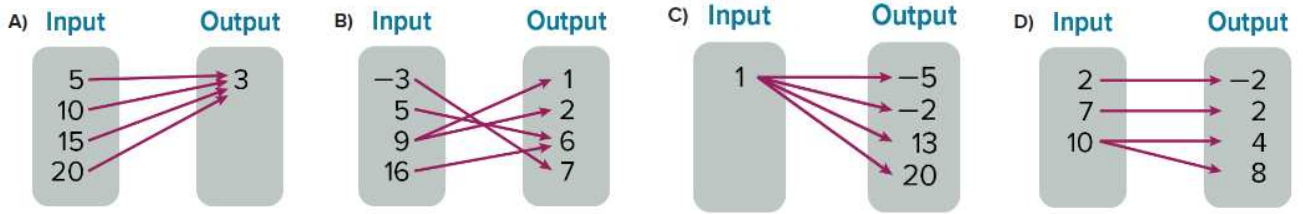
[التربية الاسلامية](#)

المزيد من الملفات بحسب الصف الثامن والمادة رياضيات في الفصل الثاني

الخطة الفصلية المسار العام - بريدج	1
دليل تصحيح أسئلة الامتحان الورقي - بريدج	2
دليل تصحيح أسئلة الامتحان الورقي - ريفيل	3
أسئلة الامتحان النهائي - بريدج	4
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Part (1) – 3 Marks per Question - Number of Main Questions (10)

1) Which relation is a function?



2) Which relation is a function?

A)

Input, x	Output, y
-1	6
3	10
7	15
7	18

B)

Input, x	Output, y
0	3
1	5
1	8
2	13

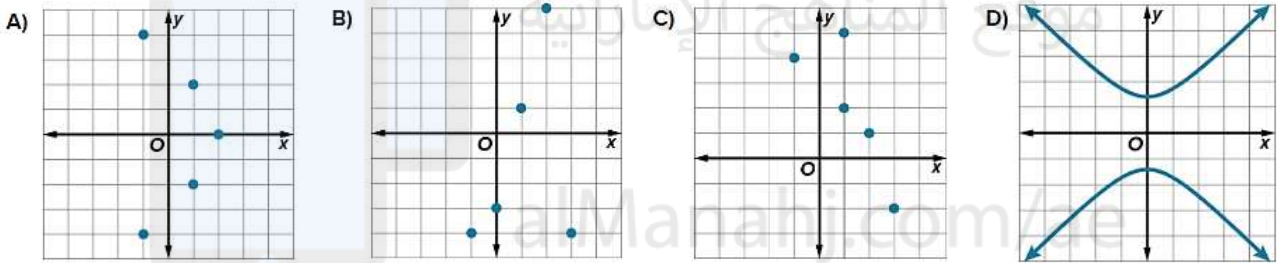
C)

Input, x	Output, y
-4	31
-1	31
6	31
8	31

D)

Input, x	Output, y
5	0
5	5
5	10
5	15

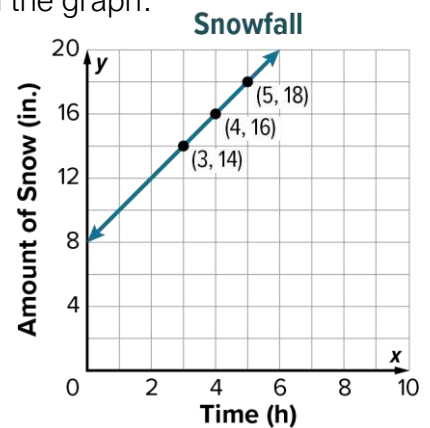
3) Which relation is a function?



4) The amount of snow that falls during a snowstorm is shown on the graph.

What is the equation for the function represented in the graph?

- A) $y = 8x + 2$
- B) $y = 2x + 8$
- C) $y = 3x + 14$
- D) $y = 14x + 3$



5) The table shows the amount of flour remaining after baking loaves of banana bread. Assume the relationship between the two quantities is linear. What is the equation for the function represented in the table?

- A) $y = -2x + 16$
- B) $y = 2x + 20$
- C) $y = 16x - 2$
- D) $y = -2x + 20$

Loaves of Banana Bread, x	Flour Remaining (c), y
2	16
4	12
6	8
8	4

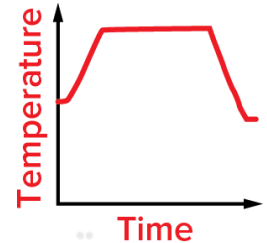
6) Angelica reads 15 pages of a book each day. In 10 days, she reads 200 pages. Assume the relationship is linear.

What is the equation for the function represented in the number of days and y represents the total number of pages read?

- A) $y = 15x + 200$ B) $y = 10x + 15$
C) $y = 15x + 50$ D) $y = 10x + 200$

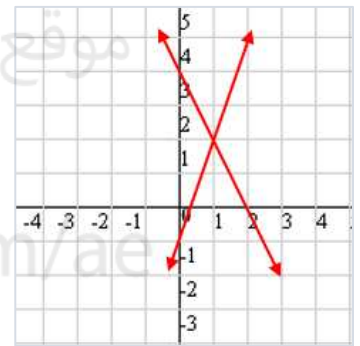
7) The readings from a thermometer placed outside for a day is shown on the graph. Which of the following describes the change in temperature over time?

- A) Initially temperature increase then stay constant for most of the day, and then decrease.
B) Initially temperature decrease then stay constant for most of the day, and then decrease.
C) Initially temperature increase then stay constant for most of the day, and then increase.
D) Initially temperature increase then decrease.



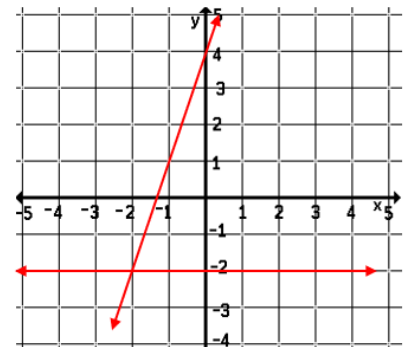
8) Which system of equations represents the graph.

- A) $y = 2x + 1$ and $y = 4x + 2$
B) $y = -3x - 1$ and $y = -4x + 2$
C) $y = 3x - 1$ and $y = -2x + 4$
D) $y = 4x + 1$ and $y = -2x + 4$



9) Which system of equations represents the graph.

- A) $y = -3x + 4$ and $x = -2$
B) $y = 3x + 4$ and $y = -2$
C) $y = -2x - 2$ and $y = -2x + 4$
D) $y = 4x - 2$ and $y = -2x + 4$



10) Enter value for a , so the system of equations has No Solution.

$$y = 5x - 7$$
$$y = ax + 4$$

- A) $a = -5$
B) $a = -7$
C) $a = 4$
D) $a = 5$

11) Enter values for a and b, so the system of equations has infinite number of solutions.

A) $a = 2, b = 8$

$$y = -2x - 8$$

$$y = ax + b$$

B) $a = -2, b = -8$

C) $a = 2, b = -8$

D) $a = -2, b = 8$

12) If the lines in a system of equations have different slopes and the same y-intercept, the system has ____

A) One solution

B) Two solutions

C) Infinitely many solutions

D) No solution

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13) Solve the system of equations by elimination.

$$x - 2y = 11$$

$$4x + 2y = 14$$

A) (1, 5)

B) (5, -3)

C) (5, 8)

D) (1, -3)

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14) Solve the system of equations by elimination.

$$8x + 14y = 4$$

$$-6x - 7y = -10$$

A) (-4, 3)

B) (-2, 4)

C) (4, -2)

D) (4, 0)

15) Write the equation $4x + 2y = 6$ in slope-intercept form.

A) $y = -2x + 3$

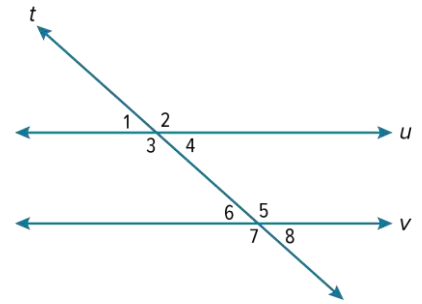
B) $y = 4x + 6$

C) $y = -4x + 6$

D) $y = 2x + 3$

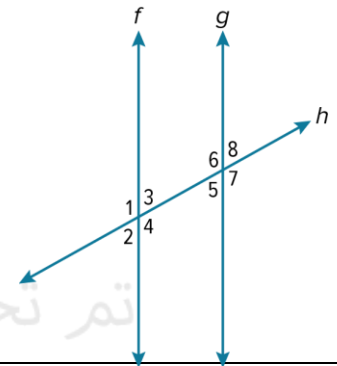
16) In the figure, line u is parallel to line v . Classify the relationship between $\angle 1$ and $\angle 8$.

- A) corresponding
- B) vertical
- C) alternate interior
- D) alternate exterior



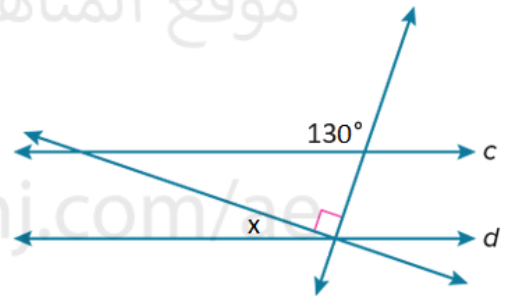
17) In the figure, line f is parallel to line g . Classify the relationship between $\angle 4$ and $\angle 7$.

- A) corresponding
- B) vertical
- C) alternate interior
- D) alternate exterior



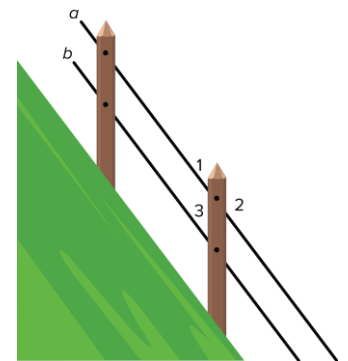
18) In the figure, line c is parallel to line d . What is the measure of $\angle x$?

- A) 90°
- B) 40°
- C) 140°
- D) 180°



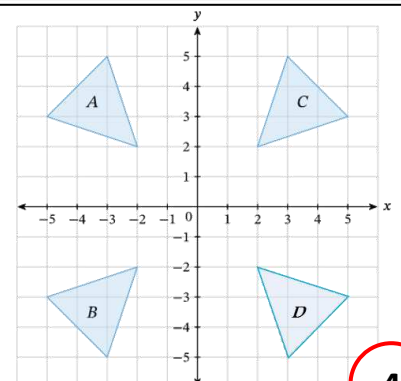
19) A pair of parallel power lines is installed on a slope. Find $m\angle 3$ if $m\angle 2 = 143^\circ$.

- A) $m\angle 3 = 180^\circ$
- B) $m\angle 3 = 37^\circ$
- C) $m\angle 3 = 143^\circ$
- D) $m\angle 3 = 90^\circ$



20) Which pair of triangles represents a reflection in the y -axis?

- A) A and B
- B) C and B
- C) A and C
- D) C and D



21) Triangle LMN has coordinates L(2, 1), M(3, 1), and N(1, 6). The triangle is reflected across the x-axis. Which of the following is the coordinates of $\Delta L'M'N'$.

- A) L'(-2, -1), M'(-3, -1), N'(-1, -6)
- B) L'(2, 1), M'(3, 1), N'(1, 6)
- C) L'(-2, 1), M'(-3, 1), N'(-1, 6)
- D) L'(2, -1), M'(3, -1), N'(1, -6)

22) Triangle ABC has coordinates A(0, -3), B(-2, -4), and C(-1, 2). The triangle is reflected across the y-axis. Which of the following is the coordinates of $\Delta A'B'C'$.

- A) A'(0, -3), B'(2, -4), C'(1, 2)
- B) A'(0, 3), B'(2, 4), C'(1, 2)
- C) A'(0, -3), B'(-2, 4), C'(-1, -2)
- D) A'(0, 3), B'(2, 4), C'(1, -2)

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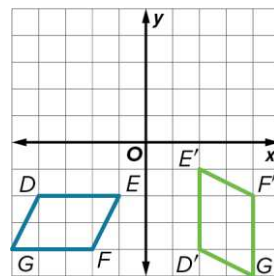
23) Triangle JKL has vertices J(3, 1), K(2, -1), and L(1, 2). The triangle is rotated 90° clockwise about the origin. Which of the following is the coordinates of $\Delta J'K'L'$.

- A) J'(-1, 3), K'(1, 2), L'(-2, 1)
- B) J'(1, -3), K'(-1, -2), L'(2, -1)
- C) J'(-1, -3), K'(-1, -2), L'(-2, -1)
- D) J'(-3, -1), K'(-2, 1), L'(-1, -2)

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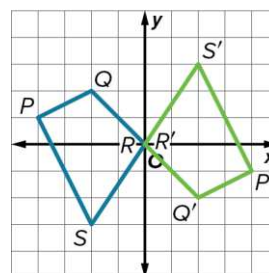
24) Use coordinate to describe the angle of rotation. If the rotation is clockwise about the origin.

- A) 90°
- B) 180°
- C) 270°
- D) 360°



25) Use coordinate to describe the angle of rotation. If the rotation is clockwise about the origin.

- A) 90°
- B) 180°
- C) 270°
- D) 360°



Part (2) – 5 Marks per Question - Number of Main Questions (10)

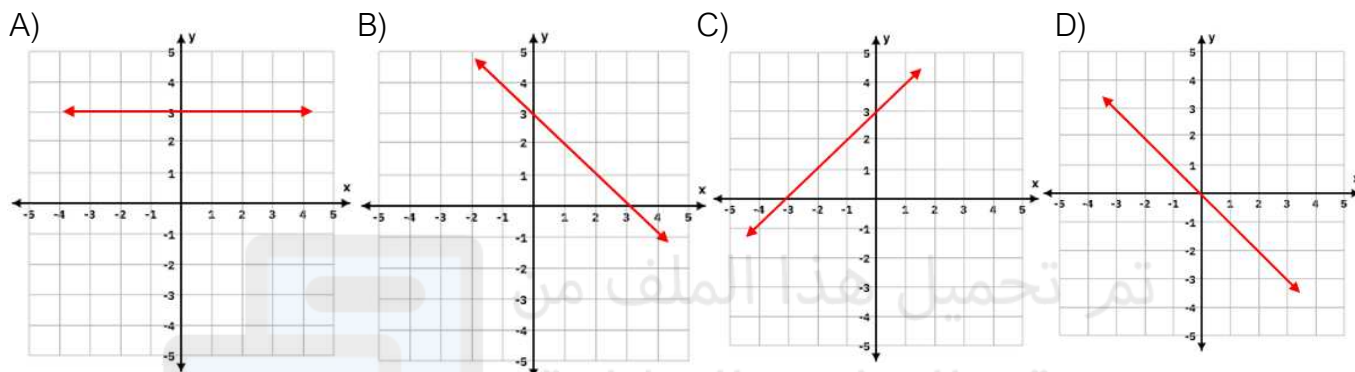
26) Complete the function table for $y = 7x + 2$.

What is the output when the input 4?

Input, x	Output, y
-2	-12
0	2
2	
4	

- A) 16 B) 30
C) -12 D) 2

27) Which graph represents the function $y = -x + 3$.

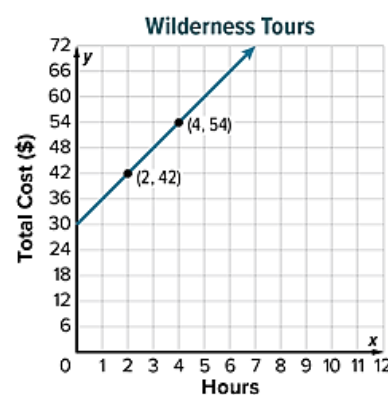


28) Big-Machines charges \$12 per hour plus a base fee of \$30 to rent golf carts. The charge for renting a four-wheeler is shown in the table. How much more it costs to rent a four-wheeler for 10 hours than it does to rent a golf cart.

Number of Hours, x	Total Cost, y
2	60
4	100
6	140
8	180

- A) \$20 B) \$150
C) \$220 D) \$70

29) Wildlife Hiking Adventures charges \$25 plus \$8 per hour for a wildlife hike. The fee for Wilderness Tours is represented in the graph. How much more Wildlife Hiking Adventures costs for 5 hours.



- A) \$6 B) \$65
C) \$5 D) \$8

30) Solve the system of equations by substitution.

$$y = 5x - 7$$

$$y = 3x + 1$$

- A) (4 , 13)
B) (4 , 8)
C) an infinite number of solutions
D) no solution

31) Solve the system of equations by substitution.

$$y = 3x - 11$$

$$y + 8 = 6x$$

- A) (1 , -8)
- B) (-1 , -14)
- C) an infinite number of solutions
- D) no solution

32) Solve the system of equations by substitution.

$$y = 5x - 2$$

$$4y = 20x - 8$$

- A) (2 , 8)
- B) (4 , -22)
- C) an infinite number of solutions
- D) no solution

33) Solve the system of equations by elimination.

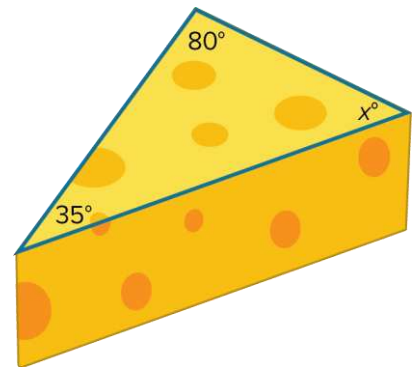
$$2x - y = 10$$

$$6x - 7y = 6$$

- A) (8 , 6)
- B) (4 , -2)
- C) (3 , -4)
- D) no solution

34) Find the value of x in the object.

- A) $x = 180$
- B) $x = 115$
- C) $x = 45$
- D) $x = 65$

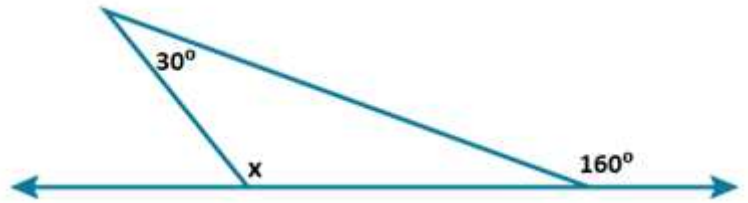


35) In $\triangle ABC$, the measures of angles A, B, and C, respectively, are in the ratio 1:2:3. Find the measure of each angle.

- A) $m\angle A = 10^\circ$, $m\angle B = 20^\circ$, $m\angle C = 30^\circ$
- B) $m\angle A = 30^\circ$, $m\angle B = 60^\circ$, $m\angle C = 90^\circ$
- C) $m\angle A = 90^\circ$, $m\angle B = 30^\circ$, $m\angle C = 60^\circ$
- D) $m\angle A = 30^\circ$, $m\angle B = 70^\circ$, $m\angle C = 80^\circ$

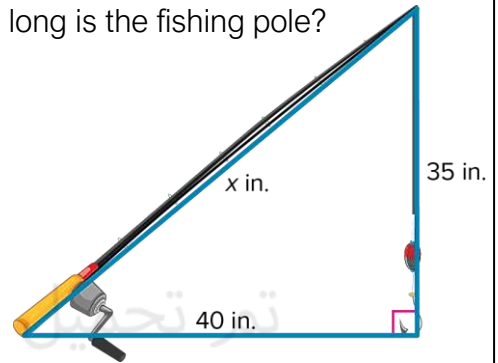
36) In the figure, Find the measures of $\angle x$.

- A) 190°
- B) 20°
- C) 180°
- D) 130°



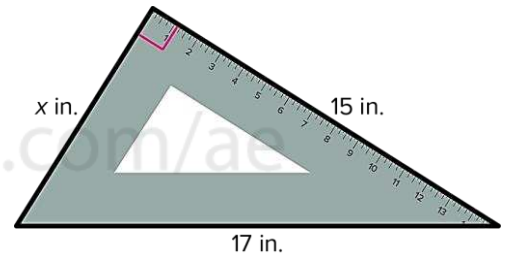
37) A fishing line that is 35 inches long is hanging down from the tip of a fishing pole. The bottom of the line to the base of the pole is 40 inches. How long is the fishing pole? Round to the nearest tenth.

- A) 75 in
- B) 8.7 in
- C) 53.2 in
- D) 19.4 in



38) The diagonal of a square tool is 17 inches, and the length of the square tool is 15 inches. Calculate the width of the square tool to the nearest inch.

- A) 2 in
- B) 8 in
- C) 32 in
- D) 22.7 in

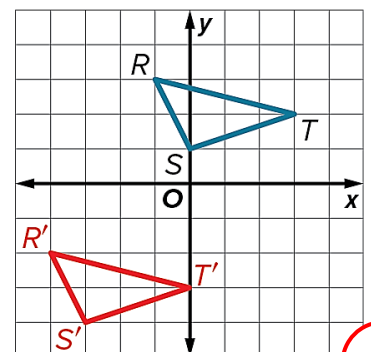


39) Ana drove from the store to a restaurant. When a coordinate grid is laid over a map, the store is at point $(-5, 3)$, and the restaurant is at point $(4, -2)$. How far is the store from the restaurant? Round to the nearest tenth of a unit if necessary.

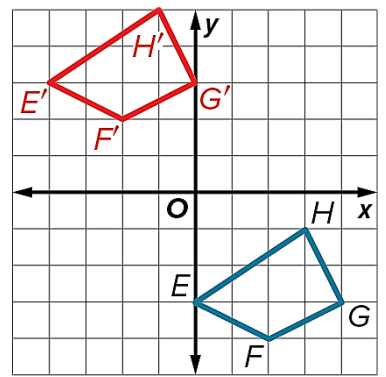
- A) 10.3 units
- B) 5.8 units
- C) 10 units
- D) 1.4 units

40) What type of transformation is shown in the graph?

- A) Translation
- B) Reflection
- C) Rotation
- D) Dilation



41) Which statement describes the translation shown in the following graph?

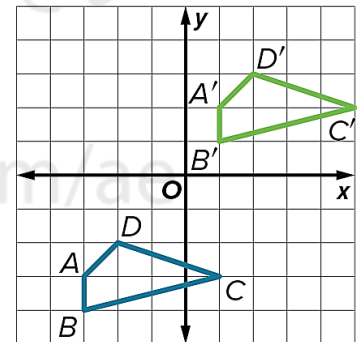


- A) 4 units right and 6 units down.
- B) 6 units right and 4 units down.
- C) 6 units left and 4 units up.
- D) 4 units left and 6 units up.

42) Triangle EFG has vertices $E(3, -4)$, $F(1, -1)$, and $G(4, 3)$. Which of the coordinates of $\triangle E'F'G'$ after translation of 3 units left and 5 units up.

- A) $E'(-3, 4)$, $F'(-1, 1)$, $G'(-4, -3)$
- B) $E'(0, 1)$, $F'(-2, 4)$, $G'(1, 8)$
- C) $E'(6, 9)$, $F'(2, 6)$, $G'(-1, 8)$
- D) $E'(0, -1)$, $F'(4, 4)$, $G'(7, 2)$

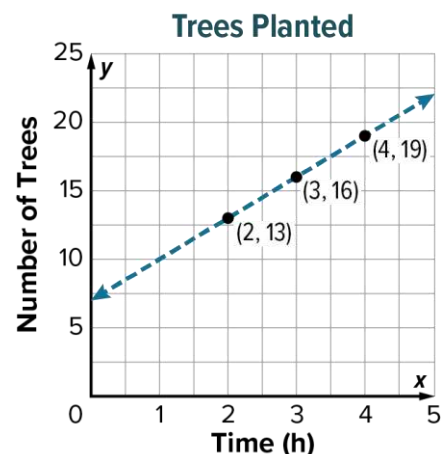
43) The preimage and image of ABCD are shown. Use coordinate notation to describe the translation.



- A) $(x, y) \rightarrow (x + 4, y + 5)$
- B) $(x, y) \rightarrow (x - 4, y - 5)$
- C) $(x, y) \rightarrow (x - 4, y + 5)$
- D) $(x, y) \rightarrow (x + 4, y - 5)$

Part (3) – 20 Marks - Number of Main Questions (6~8)

1) The number of trees Bud plants in the riparian zone is shown on the graph. Find and interpret the rate of change and initial value. Then write the equation of the function in the form $y = mx + b$.



2) The table shows the number of lattes Dana prepares in a coffee shop. Assume the relationship between the two quantities is linear. Find and interpret the rate of change and initial value. Then write the equation of the function in the form $y = mx + b$.

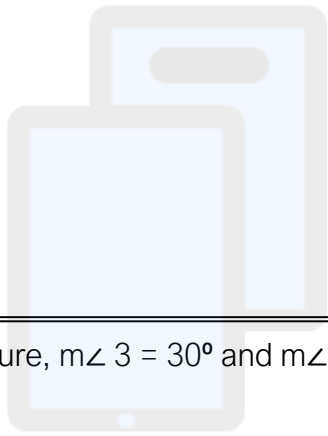
Time (h), x	Lattes Prepared, y
3	21
4	25
5	29
6	33

3) Sally sews squares on a quilt. She sews 7 squares in 1 hour. After 5 hours, Sally has sewn 43 squares. Assume the relationship is linear. Find and interpret the rate of change and initial value. Then write the equation of the function in the form $y = mx + b$, where x represents the number of hours and y represents the total number of squares sewn.

4) Write and solve a system of equations that represents the situation. The sum of two numbers is 25. Their difference is 7. Find the two numbers.

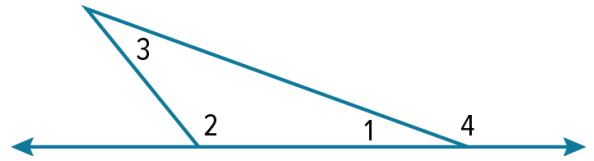
5) Kiara spent \$28 on 4 ribbons and 5 balloons. Sarah spent \$28 on 8 ribbons and 3 balloons. All ribbons cost the same amount and all balloons cost the same amount. What is the cost of each ribbon and each balloon?

6) Stephan and John are reading the same book. Stephan reads 7 pages a day and is on page 22. John reads 9 pages a day and is on page 10. How many days until Stephan and John are on the same page? What page will they be on?

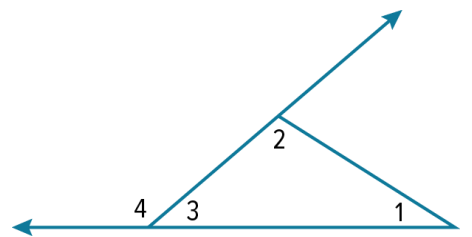


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7) In the figure, $m\angle 3 = 30^\circ$ and $m\angle 4 = 160^\circ$. Find the measures of $\angle 1$ and $\angle 2$.



8) In the figure, $m\angle 2 = 95^\circ$ and $m\angle 4 = 120^\circ$. Find the measures of $\angle 1$ and $\angle 3$.



Answer key

Part (1) – 3 Marks per Question - Number of Main Questions (10)

1	2	3	4	5	6	7	8	9	10	11
A	C	B	B	D	C	A	C	B	D	B
12	13	14	15	16	17	18	19	20	21	22
A	B	C	A	D	A	B	B	C	D	A
23	24	25								
B	C	B								

Part (2) – 5 Marks per Question - Number of Main Questions (10)

26	27	28	29	30	31	32	33	34
B	B	D	C	A	B	C	A	D
35	36	37	38	39	40	41	42	43
B	D	C	B	A	A	D	B	A

Part (3) – 20 Marks - Number of Main Questions (6~8)

1) The rate of change is 3, so Bud plants 3 trees per hour. The initial value is 7, so 7 trees have already been planted; $y = 3x + 7$

2) The rate of change is 4, so the number of lattes Dana prepares each hour is 4. The initial value is 9, so 9 lattes have already been made; $y = 4x + 9$

3) The rate of change is 7, so the number of squares sewn each hour is 7. The initial value is 8, so 8 squares have already been sewn on the quilt; $y = 7x + 8$

4) $x + y = 25$ and $x - y = 7$; (16, 9); The two numbers are 16 and 9.

5) $28 = 4x + 5y$ and $28 = 8x + 3y$; (2, 4); Each ribbon costs \$2 and each balloon costs \$4.

6) $y = 7x + 22$ and $y = 9x + 10$; (6, 64); In 6 days, they will both be on page 64.

7) $m\angle 1 = 20^\circ$, $m\angle 2 = 130^\circ$

8) $m\angle 1 = 25^\circ$, $m\angle 3 = 60^\circ$