

تم تحميل هذا الملف من موقع المناهج الإماراتية



* للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

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* للحصول على أوراق عمل لجميع مواد الصف الأول الثانوي اضغط هنا

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* للحصول على جميع أوراق الصف الأول الثانوي في مادة رياضيات ولجميع الفصول, اضغط هنا

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* للحصول على أوراق عمل لجميع مواد الصف الأول الثانوي في مادة رياضيات الخاصة بـ الفصل الأول اضغط هنا

<https://almanahj.com/eg/10math1>

* لتحميل كتب جميع المواد في جميع الفصول للـ الصف الأول الثانوي اضغط هنا

<https://almanahj.com/eg/grade10>

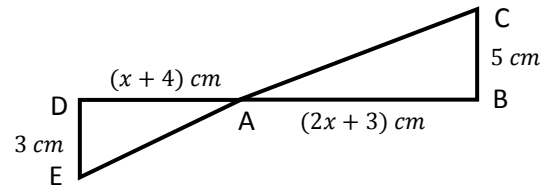
* لتحميل جميع ملفات المدرس محمد فاروق محمد اضغط هنا

Mathematics Councilor Office

Released questions for 1st secondary stage 2019/2020

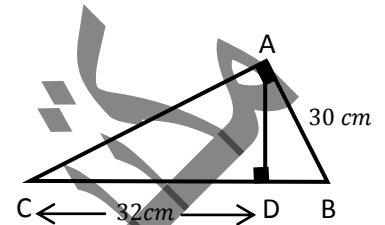
- (1) If $x = 5$ is a root of the equation: $x^2 + mx = 2m + 4$, then $m = \dots\dots$
 (a) -7 (b) 7 (c) $\frac{29}{3}$ (d) $\frac{-29}{3}$
- (2) If 2, 7 are the roots of the equation: $x^2 + ax + b = 0$, then the value of:
 $a + b = \dots\dots$
 (a) 5 (b) -5 (c) 23 (d) -23
- (3) $(1 + i)^4 - (1 - i)^4 = \dots\dots$
 (a) 0 (b) 8 (c) -8 (d) 4
- (4) If $2x - y + (x - 2y)i = 5 + i$, then $(x, y) = \dots\dots$
 (a) (1,3) (b) (3,1) (c) (-3,1) (d) (3,-1)
- (5) If the two roots of the equation: $kx^2 - 8x + 16 = 0$ are complex and not real, then $k \in \dots\dots$
 (a) $]1, \infty[$ (b) $] -\infty, 1[$ (c) $] -\infty, -1[$ (d) $] -1, \infty[$
- (6) The two roots of the equation: $x + \frac{9}{x} = 6$ where $x \neq 0$ are
 (a) real and equal (b) real and different (c) complex and not real (d) conjugate to each other
- (7) If the two roots of the equation: $8x^2 - bx + 3 = 0$ are positive and the ratio between them is 2 : 3, then the value of $b = \dots\dots$
 (a) 10 (b) -10 (c) $\frac{5}{4}$ (d) $\frac{-5}{4}$
- (8) If L and M are the two roots of the equation: $x^2 - 7x + 3 = 0$, then the quadratic equation whose roots are $2L, 2M$ is
 (a) $x^2 - 14x + 12 = 0$ (b) $x^2 + 14x + 12 = 0$ (c) $x^2 - 14x - 12 = 0$ (d) $x^2 + 14x - 12 = 0$
- (9) If the difference between the two roots of the equation: $6x^2 - 7x + 1 - a = 0$ is $\frac{11}{6}$, then the value of $a = \dots\dots$
 (a) 4 (b) 2 (c) -4 (d) -2
- (10) If: $[-3, 2] \rightarrow R, f(x) = 3x + 6$, then the sign of the function f is negative in the interval
 (a) $] -2, \infty[$ (b) $[-3, -2[$ (c) $] -\infty, -2[$ (d) $[-2, 2]$

- (21) In the opposite figure:
 $\Delta ABC \sim \Delta ADE$, then the value of $x = \dots\dots$



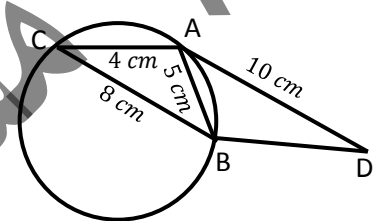
- (a) 11 (b) 1 (c) 12 (d) 10

- (22) In the opposite figure:
 ABC is a right-angled triangle at A , $\overline{AD} \perp \overline{BC}$, then
 $AD = \dots \text{ cm}$



- (a) 18 (b) 25 (c) 24 (d) 20

- (23) In the opposite figure:
 \overline{AD} is a tangent to the circle at A ,
then the length of $\overline{BD} = \dots \text{ cm}$

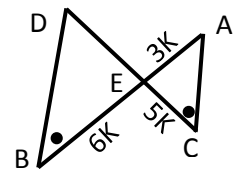


- (a) $6\frac{1}{4}$ (b) $8\frac{1}{4}$ (c) 6 (d) 7

- (24) If the ratio between the lengths of the diagonals of two squares is $2 : 5$ and the area of the smaller one is 4 cm^2 , then the area of the greater one is $\dots\dots \text{ cm}^2$

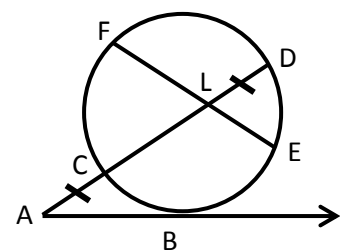
- (a) 25 (b) 10 (c) 20 (d) 50

- (25) In the opposite figure:
 $\overline{AB} \cap \overline{CD} = \{E\}$, $a(\Delta ACE) = 900 \text{ cm}^2$,
then $a(\Delta DEB) = \dots\dots \text{ cm}^2$



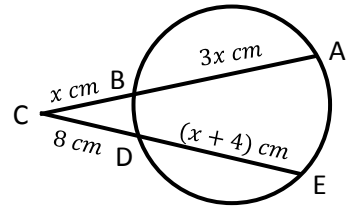
- (a) 1296 (b) 1080 (c) 750 (d) 625

- (26) In the opposite figure:
 \overline{AB} is a tangent to the circle at B ,
 $FL = 10 \text{ cm}$, $LE = 3.2 \text{ cm}$,
 $CL = 8 \text{ cm}$ and $AB = x \text{ cm}$,
then $x = \dots \text{ cm}$



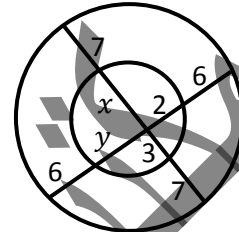
- (a) 8 (b) 4 (c) 6 (d) 10

(27) In the opposite figure:
 $x = \dots\dots\dots \text{ cm}$



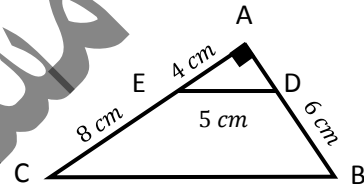
- (a) 6 (b) 5 (c) 4 (d) 3

(28) In the opposite figure:
 $(x, y) = \dots\dots\dots$



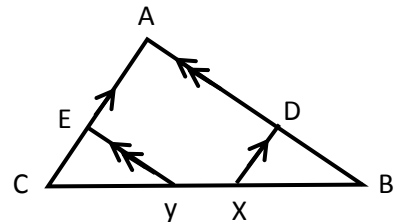
- (a) (11, 16.5) (b) (11, 15.5) (c) (12, 16.5) (d) (12, 15.5)

(29) In the opposite figure:
 $BC = \dots\dots\dots \text{ cm}$



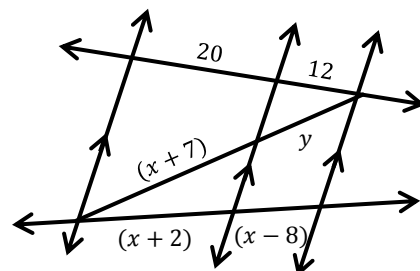
- (a) 15 (b) 10 (c) 12,5 (d) 25

(30) In the opposite figure:
 $\overline{AX} // \overline{AC}$, $\overline{EY} // \overline{AB}$, $BC = 13.5 \text{ cm}$, $\frac{AD}{DB} = \frac{3}{2}$
 and $\frac{EC}{AE} = \frac{4}{5}$, then $XY = \dots\dots \text{ cm}$



- (a) 2.1 (b) 2.3 (c) 2.4 (d) 2.6

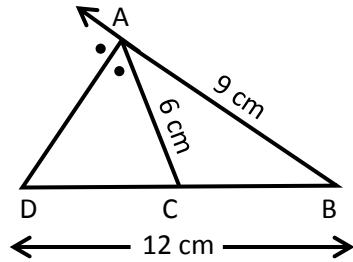
(31) In the opposite figure:
 $x - y = \dots\dots\dots \text{ cm}$



- (a) 5 (b) 6 (c) 4 (d) 7

(32) In the opposite figure:

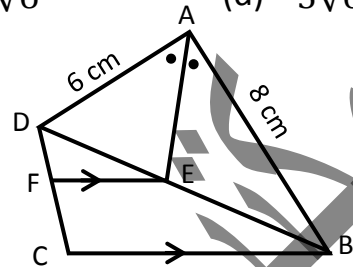
$AD = \dots\dots\dots \text{ cm}$



- (a) $\sqrt{42}$ (b) 8 (c) $5\sqrt{6}$ (d) $3\sqrt{6}$

(33) In the opposite figure:

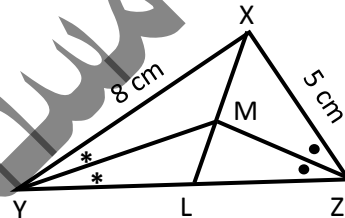
$\frac{DF}{FC} = \dots\dots\dots$



- (a) $\frac{4}{3}$ (b) $\frac{8}{7}$ (c) $\frac{2}{3}$ (d) $\frac{3}{4}$

(34) In the opposite figure:

$8LZ = \dots\dots\dots LY$



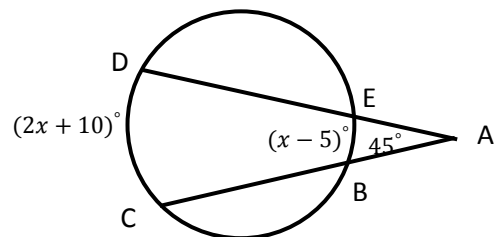
- (a) 5 (b) 3 (c) 13 (d) 2

(35) If M is a circle of radius length 3 cm , A is a point lies in its plane where $MA = 4 \text{ cm}$, then $P_M(A) = \dots\dots\dots$

- (a) 7 (b) -7 (c) 25 (d) -25

(36) In the opposite figure:

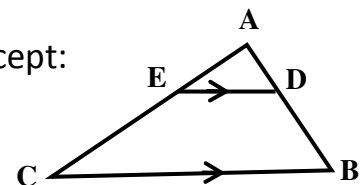
$x = \dots\dots\dots^\circ$



- (a) 75 (b) 150 (c) 135 (d) 100

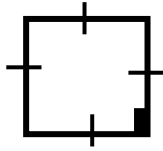
(37) In the opposite figure:

All of the following geometrical relations are correct except:

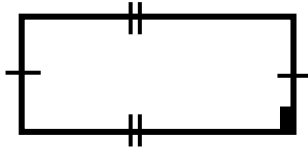


- (a) $\frac{AD}{DB} = \frac{AE}{EC}$ (b) $\frac{AD}{DB} = \frac{DE}{BC}$ (c) $\frac{AD}{AB} = \frac{AE}{AC}$ (d) $\frac{BD}{BA} = \frac{CE}{CA}$

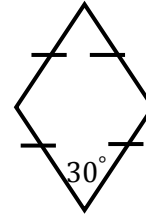
(38) Which of the following polygons are similar?



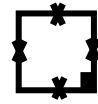
(1)



(2)



(3)



(4)

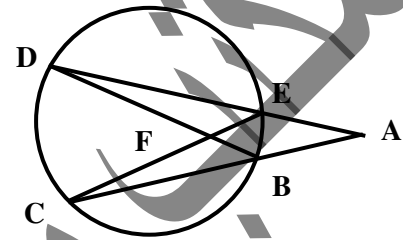
(a) Polygons (1),(2)

(b) Polygons (1),(3)

(c) Polygons (1),(4)

(d) Polygons (3),(4)

(39) In the opposite figure:
 $m(\angle DFC) - m(\angle A) = \dots\dots\dots$



(a) $m(\widehat{DC})$

(b) $2m(\widehat{DC})$

(c) $m(\widehat{EB})$

(d) $2m(\widehat{EB})$

(40) If $P_M(A) = 7$, then the point A liesthe circle M

(a) inside

(b) outside

(c) on

(d) on the center of

الثانوي

الصف

المحافظة

المادة

الادارة التعليمية

رقم الجلوس

اسم المدرسة

الرقم السري

اسم الطالب

توقيع الملاحظين

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

26. (A) (B) (C) (D)
27. (A) (B) (C) (D)
28. (A) (B) (C) (D)
29. (A) (B) (C) (D)
30. (A) (B) (C) (D)
31. (A) (B) (C) (D)
32. (A) (B) (C) (D)
33. (A) (B) (C) (D)
34. (A) (B) (C) (D)
35. (A) (B) (C) (D)
36. (A) (B) (C) (D)
37. (A) (B) (C) (D)
38. (A) (B) (C) (D)
39. (A) (B) (C) (D)
40. (A) (B) (C) (D)
41. (A) (B) (C) (D)
42. (A) (B) (C) (D)
43. (A) (B) (C) (D)
44. (A) (B) (C) (D)
45. (A) (B) (C) (D)
46. (A) (B) (C) (D)
47. (A) (B) (C) (D)
48. (A) (B) (C) (D)
49. (A) (B) (C) (D)
50. (A) (B) (C) (D)

الدرجة الكلية

الرقم السري