

Mathematics

حل بجروت نموذج 802 شتاء 2020

A) ~~4/1~~ $0 = -x^2 - 2x + 3$ $y = -x^2 - 2x + 3$
 $0 = x^2 + 2x - 3$

سؤال 1

$$0 = (x+3)(x-1)$$

$$\begin{array}{l} x+3=0 \\ x=-3 \end{array}$$

$$\begin{array}{l} x-1=0 \\ x=1 \end{array}$$

$$B(1,0)$$

$$A(-3,0)$$

C) $x < -3$ أو $x > 1$

D) $x = \frac{-b}{2a}$

$$x = \frac{-(-2)}{2(-1)}$$

$$x = \frac{2}{-2}$$

$$\boxed{x = -1}$$

$$y = -(-1)^2 - 2 \cdot (-1) + 3$$

$$C(-1, 4)$$

E) $y = 4$

$$AO = |0 + (-3)| = 3$$

$$الارتفاع = |4 - 0| = 4$$

$$\int = \frac{4 \cdot 3}{2} = \frac{12}{2} = 6$$

6 وحدات

1) 1) $a_1 = 11$ $a_2 = 8$ $a_3 = 5$

2) $8 - 11 = (-3)$ $d = -3$

سؤال 2:

3) $-13 = 11 + (n-1)(-3)$

$$-13 = 11 - 3n + 3$$

$$3n = 11 + 3 + 13$$

$$3n = 27$$

$$n = 9$$

4) $-66 = n \frac{[2 \cdot 11 + (-3)(n-1)]}{2}$

$$-132 = n [22 - 3n + 3]$$

$$-132 = 22n - 3n^2 + 3n$$

$$0 = -3n^2 + 25n + 132$$

$$a = -3 \quad b = 25 \quad c = 132$$

دستور

$$x_1 = \frac{-25 + \sqrt{2209}}{(-6)} = -3.6$$

$$x_2 = \frac{-25 - \sqrt{2209}}{(-6)} = 12$$

$$n = 12$$

$$1) \quad m_0 = 6000 \quad p = 3\%$$

$$q = 1 + \frac{p}{100}$$

$$\rightarrow q = 1.03$$

$$m_2 = 6000 (1.03)^2$$

$$m_2 = 6487.2$$

سؤال 3:

$$2) \quad t = \frac{\ln\left(\frac{9000}{6000}\right)}{\ln(1.03)} = 3.98 \text{ سنوات}$$

الجزء الثاني 2025

$$3) \quad m_0 = 6000$$

$$m_2 = 6615$$

$$q = \sqrt{\frac{6615}{6000}}$$

$$q = 1.05$$

$$p = 100(1.05 - 1)$$

$$p = 5\%$$

$$BE = 14 \quad AB = 6$$

$$\angle SEO = 52^\circ$$

سؤال 4

$$P) EO = \frac{14}{2} = 7$$

$$\tan 52^\circ = \frac{SO}{7}$$

$$7 \tan 52^\circ = SO$$

$$SO = 8.9$$

$$B) \quad SEB \text{ مثلث قائم}$$

$$(SE)^2 = 7^2 + (8.9)^2$$

$$\sqrt{(SE)^2} = 12.21$$

$$SE = 11.3$$

$$D) \quad \frac{6(11.3)}{2} = 34.1$$

سؤال 5:

$$P) \quad (3 \ 60) + (8 \ 70) + (5 \ 80) = 7/15$$

$$B) \quad \frac{70 + 70}{2} = 70 \quad | \quad 6$$

D)

نعم يكبر معدل العلامات الجديد لأن العلامة 80 أكبر من المعدل.

$$\bar{x} = 74 \quad S = 6$$

$$A) 74 - 68 = 6$$

$$\bar{x} - S = 68$$

$$0.5\% + 15\% + 5\% + 1\% = 16\%$$

سؤال 6:

$$B) 86 - 74 = 12$$

$$\bar{x} + 2S = 86$$

$$15\% + 0.5\% = 2\%$$

$$C) 74 - 65 = 9$$

$$\bar{x} - \frac{3S}{2} = 65$$

$$0.5\% + 15\% + 5\% = 7\%$$

$$7\% = 420$$

$$\frac{420}{0.07} = 6,000$$

$$\frac{7}{100} = 0.07$$