



$\mu^2 \sim \omega$
 $\downarrow$
 $\mu^2 \sim \omega^2 = 9^2 = 81$

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$81 - 12 = 69 \rightarrow$ اولي
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$\{1, 2, 3\}, \{4, \dots, 12\}, \{13, \dots, 24\}, \{25, \dots, 36\}, \{37, \dots, 48\}$

$36 - 12 + 1 = 24 \rightarrow$ اولي
 $\mu^2 \sim \omega^2 = 9^2 = 81$

$\frac{(12 + 24) \times 12}{2} = 216$

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$$qar = aqa + raa \rightarrow r(a+d)^r = a(a+d)u + r(a+d)a$$

$$qar + rad + qd^r = aar + ad + raa + rad \Rightarrow qd^r = raa + rad$$

$$\Delta = d^r - r(qd^r)(r) = d^r + rad^r = rad^r \Rightarrow a = \frac{-d \pm \sqrt{r^2 d^2}}{r} \rightarrow -rd$$

$$\frac{rns}{d} = \frac{a+rd}{d} \Rightarrow \frac{-rd+rd}{d} \stackrel{1}{=} \frac{rd+rd}{d} = \frac{2rd}{d} = 2r \quad \text{P} \quad \checkmark$$

$$a = b-d \quad b, \frac{a}{r}, \frac{c}{r} \Rightarrow b, \frac{1}{r}(b-d), \frac{1}{r}(b+d) \Rightarrow b^r = a \cdot c$$

$$\left(\frac{b-d}{r}\right)^r = b \cdot \left(\frac{b+d}{r}\right) = \frac{b^r + d^r - rbd}{r}$$

$$d^r - rbd = bd \Rightarrow d^r - r^2 bd = 0 \Rightarrow d^r = r^2 bd \quad \text{P} \quad \checkmark$$

$$a, b, c$$

$$\frac{1}{q} \downarrow a \downarrow b \downarrow aq$$

$$\frac{aq}{aq} \Rightarrow \frac{aq}{aq} = 1 \rightarrow q^r = 1 \rightarrow q^r = 1 \quad \text{P} \quad \checkmark$$

$$r^2b, r^2a, c$$

$$\frac{r^2b}{r^2a} \downarrow \frac{r^2a}{r^2a} \downarrow \frac{c}{aq}$$

$$\frac{ra}{q} = \frac{ra + aq}{r}$$

$$rx = \frac{ra}{r} + \frac{aq}{r}$$

$$x = ra + q^r$$

$$\Delta = b^r - rac \rightarrow q + 16 = 25 \quad m = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \text{P} \quad \checkmark$$

$$\frac{ar}{q} = ? \rightarrow \frac{ar}{aq} = ?$$

$$\Rightarrow \frac{ar}{(ar)^r} + \frac{ar}{ar} = r \Rightarrow \frac{aq^r}{ar^r} + \frac{aq}{ar} \Rightarrow \frac{q^r}{ar} + \frac{q}{a} = r$$

$$\frac{ar}{aq} = \frac{a}{q} \Rightarrow \frac{a}{q} = 1$$

$$\frac{a}{q} = \frac{a}{-ra} = -\frac{1}{r} \quad \text{P} \quad \checkmark$$

$$m^r + m + r = 0 \rightarrow \Delta = b^r - 4ac \Rightarrow m = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$m = 1 \quad a = q \quad m = -r \quad q = -rq$$

$$ar = \sqrt{ar} = (aq^r = \sqrt{aq^r})^r \Rightarrow aq^r = aq^r \quad \text{P} \quad \checkmark$$

$$a = rv \quad aq^r = aq^r \cdot q^r = rv \Rightarrow q = r \quad a = \frac{1}{q} \Rightarrow a = \frac{1}{r} \quad \frac{1}{r} - \frac{1}{r} = \frac{1}{r}$$