

۲۰ حاله نوشتن

نام و نام خانوادگی علاء جلالیان پاسخنامه تشریحی تکلیف شماره ۱۴۰۰ ... کلاس ... پایه نهم ...

$y_{max} = 7 \rightarrow \frac{-\Delta}{2a} = 7 \rightarrow \frac{-(b^2+12)}{2 \cdot 4} = 7 \rightarrow b^2+12 = 28 \rightarrow b^2-16=0$ $\rightarrow b = \pm 4 \quad \checkmark$	۲ ۱
$x^2 = t \rightarrow t^2 + 2t + 3 = 0 \rightarrow \Delta < 0 \rightarrow$ معادله <u>بی‌نقدار</u> ✓ $f - x^2 = t \rightarrow t^2 - 2t - 10 = 0 \rightarrow (t-0)(t+3) = 0 \rightarrow$ $\begin{cases} t=0 \rightarrow -x^2-1=0 \times \text{حاصل ندارد} \\ t=-3 \rightarrow -x^2+7=0 \rightarrow x = \pm \sqrt{7} \quad \checkmark \end{cases}$	۲ ۲
$f x^2 - 19x + m = 0 \quad \begin{cases} \alpha \\ \beta = \alpha + 2 \end{cases} \quad S = \frac{19}{f} = 4 \rightarrow 2\alpha + 2 = 4$ $\rightarrow \alpha = 1$ $\alpha = 1 \quad \beta = 3 \quad \checkmark \quad C = 3 \rightarrow \frac{m}{f} = 3 \rightarrow m = 12 \quad \checkmark$	۲ ۳
$3x^2 - 4x + m - 1 = 0$ $2\alpha - \beta = 4 \rightarrow 3\alpha = 4 \rightarrow \alpha = \frac{4}{3} \rightarrow \beta = 0$ $\alpha + \beta = \frac{4}{3} = 1 \quad p = 0 \xrightarrow{\alpha=0} \frac{m-1}{3} = 0 \rightarrow m = 1 \quad \checkmark$	۲ ۴
$-mx^2 + 6x + m^2 - 2 = 0 \quad \begin{cases} \alpha = \alpha \\ \beta = \frac{1}{\alpha} \end{cases}$ $\alpha \times \frac{1}{\alpha} = 1 \rightarrow \frac{c}{a} = 1 \rightarrow \frac{m^2-2}{-m} = 1 \rightarrow m^2+m-2=0 \rightarrow (m-1)(m+2)=0$ $m = \begin{cases} 1 \rightarrow \Delta > 0 \quad \checkmark \rightarrow m = 1 \quad \checkmark \\ -2 \rightarrow \Delta = 0 \quad \times \end{cases}$	۲ ۵

$$x^2 - mx + r = 0$$

$$\alpha B^r = r \rightarrow PB = r \rightarrow B = \frac{r}{P} \rightarrow B\alpha\alpha = r \rightarrow \frac{r}{P}\alpha\alpha = r \rightarrow \alpha = \frac{q}{r}$$

$$\alpha + B = m \rightarrow m = \frac{r}{P} + \frac{q}{r} = \frac{r^2 + qP}{Pr} \checkmark$$

$$x^2 - \epsilon x + m = 0 \rightarrow \alpha = \epsilon$$

$$\rightarrow B = r\alpha$$

$$\alpha + B = \alpha + r\alpha = r\alpha = s = r \rightarrow \alpha = 1$$

$$\rightarrow \alpha = 1 \rightarrow P = r \rightarrow \frac{s}{\alpha} = r \rightarrow \frac{m}{1} = r \rightarrow m = r \checkmark$$

$$x^2 - vx + r = 0 \rightarrow \alpha \rightarrow \alpha B = r \rightarrow \alpha = \frac{r}{B} \rightarrow \alpha^r = \frac{\Lambda}{B^r}$$

$$\alpha^r + \frac{\Lambda}{\alpha^r} = \alpha^r + \frac{\Lambda}{\frac{\Lambda}{B^r}} = \alpha^r + B^r = s^r - rps = r^2 - \epsilon r = r(1 - \epsilon) \checkmark$$

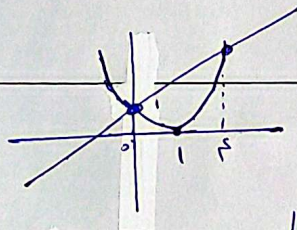
$$s = r$$

$$P = r$$

$$h(t) = -1.0t^2 + 0.4t \left\{ \begin{array}{l} x_{max} = \frac{-0.4}{-2.0} = \frac{0.2}{1} = 0.2 \\ y_{max} = (-1.0 \times \frac{0.2^2}{1}) + (0.4 \times 0.2) = \frac{1.20}{1} = 1.20 \text{ m} \checkmark \end{array} \right.$$

$$h(t) = 0 \rightarrow -1.0(t - 0.2) = 0 \rightarrow t = 0.2 \text{ s} \checkmark$$

$$(x-1)^2 = 2x+1$$

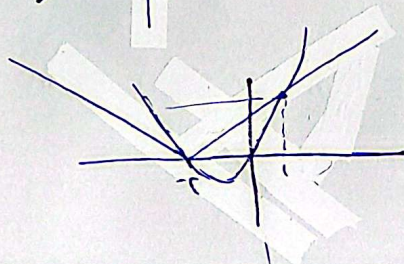


$$x = 0 \text{ و } 4 \checkmark$$

انت (نقطه)

$$x^2 + rx = |x+r|$$

$$x(x+r) = |x+r|$$



$$x = -5 \checkmark$$

نقطه

1.