

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۴ کلاس B

$$-\frac{\Delta}{ka} = 1 \rightarrow \frac{ka^2 - b^2}{ka} = 1 \Rightarrow ka^2 - b^2 = ka \quad a = -1$$

$$k \times (-1)^2 - b^2 = -ka \Rightarrow b^2 = 14 \rightarrow b \rightarrow +k$$

$$b \rightarrow -k$$

$$y = -x^2 + kx + k \quad \Delta > 0 \quad \checkmark$$

$$y = -x^2 - kx + k \quad \Delta > 0 \quad \checkmark$$

۵

۱

الف) $x^2 = t \Rightarrow t^2 + 2t + 1 = 0 \Rightarrow \Delta < 0$ ندارد

$$\Rightarrow k - k^2 < 0 \quad \checkmark$$

ب) $(k - x^2) = t \Rightarrow t^2 - 2t - 1 = 0 \Rightarrow (t+1)(t-3) = 0 \Rightarrow t = -1$

$$k - x^2 = 3 \Rightarrow x^2 = 10 \Rightarrow x = \pm \sqrt{10}$$

$$k - x^2 = -1 \Rightarrow x^2 = 0 \Rightarrow x = 0$$

۵

۲

$$B = \alpha + 1 \quad \alpha + B = 2\alpha + 1 = k = 0 \Rightarrow \alpha = -1 \quad B = 0$$

$$S = -\frac{b}{a} \quad \alpha B = \frac{c}{a} \Rightarrow 1 \times 1 = \frac{m}{1} \Rightarrow m = 1$$

$$P = \frac{c}{a} \quad kx^2 - 14x + 1 = 0 \Rightarrow \Delta > 0 \quad \checkmark$$

۵

۳

$$2\alpha - k = B$$

$$\alpha B = \frac{m-1}{k} = 0 \Rightarrow m-1 = 0 \Rightarrow m = 1$$

$$\alpha + B = 1 \Rightarrow 2\alpha - k = 1 \Rightarrow 2\alpha = 1 + k \Rightarrow \alpha = \frac{1+k}{2}$$

$$B = 0$$

کدامی
کدامی

$$3x^2 - 4x = 0 \Rightarrow \Delta > 0 \quad \checkmark$$

۵

۴

$$B = \frac{1}{\alpha} \Rightarrow \alpha B = 1$$

$$\alpha B = 1 \Rightarrow \frac{m^2 - 1}{-m} = 1 \Rightarrow m^2 - 1 = -m \Rightarrow m^2 + m - 1 = 0 \Rightarrow (m-1)(m+1) = 0$$

$$n = 2 \Rightarrow 2x^2 + kx + k - 1 = 0 \Rightarrow \Delta = 0 \quad \checkmark$$

$$m = 0 \Rightarrow -x^2 + kx + 1 - 1 = 0 \Rightarrow -x^2 + kx = 0 \Rightarrow \Delta > 0 \quad \checkmark$$

m = 1

۵

۵

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

$$\alpha \beta = r \Rightarrow (\alpha \beta)(\beta) = r \Rightarrow \beta = \frac{r}{\alpha} \rightarrow \frac{r}{\alpha} \times \frac{r}{\alpha} \times \alpha = r \Rightarrow \boxed{\alpha = \frac{r}{\alpha}}$$

$$\alpha + \beta = -\frac{b}{a} \Rightarrow m \Rightarrow \frac{r}{\alpha} + \frac{r}{\alpha} = \frac{2r}{\alpha} = \frac{r}{\alpha}$$

$$\Rightarrow \frac{-b}{a} = -\frac{b}{a} = \frac{r}{\alpha} \Rightarrow b = -\frac{r}{\alpha} \Rightarrow x^2 - \frac{r}{\alpha}x + r \rightarrow \Delta > 0 \checkmark$$

5

$$\beta = r\alpha$$

$$\alpha + \beta = r \Rightarrow r\alpha = r \Rightarrow \boxed{\alpha = 1} \quad \boxed{\beta = r}$$

$$\alpha \beta = m = p \Rightarrow 1 \times r = m \Rightarrow \boxed{m = r}$$

$$x^2 - rx + r \rightarrow \Delta > 0 \checkmark$$

5

$$\alpha^r + \frac{1}{\alpha^r} \Rightarrow \left(\alpha + \frac{r}{\alpha}\right) \left(\left(\alpha + \frac{r}{\alpha}\right) - r\right) \Rightarrow (\alpha + \beta)(\alpha^r + \beta^r - r) = 0$$

$$S = V$$

$$P = r \Rightarrow \alpha = \frac{r}{\beta} \Rightarrow \beta = \frac{r}{\alpha} \Rightarrow \left(-\frac{b}{a}\right) \left(S^r - rP - r\right) = (V)(r - r - r) \Rightarrow (V)(r) = r \cdot 1$$

5

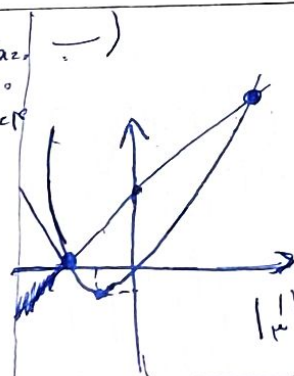
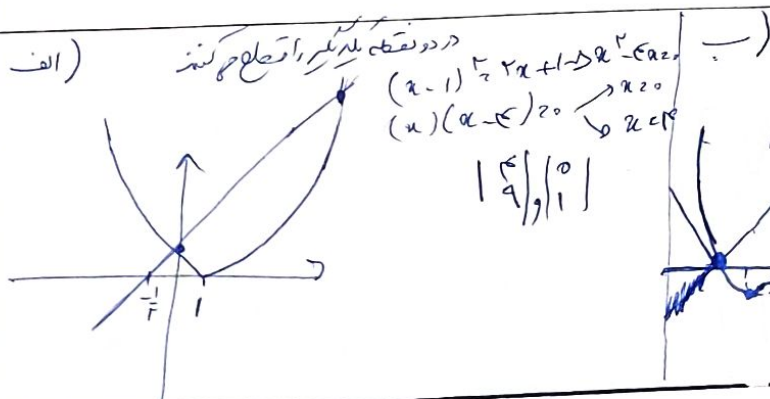
$$\frac{-\Delta}{4a} \Rightarrow \frac{rac - b^2}{4a} = \frac{r_x - 1 \cdot x - 2 \Delta}{-4} = \frac{2 \Delta}{4} = \Delta$$

ارتفاع
صلوات

$$h(t) = 1.0t^2 + 2.0t \Rightarrow -1.0t^2 + 2.0t = 0 \Rightarrow t^2 - 2t = 0$$

$$t(t - 2) = 0 \Rightarrow \boxed{t = 0} \quad \boxed{t = 2} \checkmark$$

5



$$x^2 + 2x = x + 2 \Rightarrow x^2 + x - 2 = 0 \Rightarrow (x+2)(x-1) = 0 \Rightarrow x = -2 \text{ یا } x = 1$$

$$x < 2 \Rightarrow x = -2$$

در $x = -2$ ارتفاع صاف است