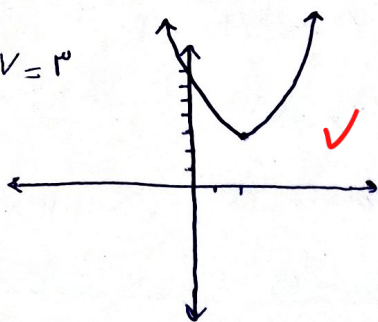


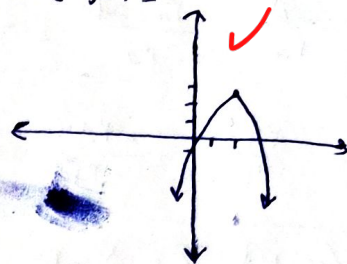
$$x = \frac{-b}{2a} = \frac{4}{2} = 2$$

$$y = 2^2 - 4(2) + 7 = 3$$



$$x = \frac{-b}{2a} = \frac{-4}{-2} = 2$$

$$y = -2^2 + 4(2) - 1 = 3$$



$$\text{الف: } b^2 - 4ac > 0 \quad m^2 + 1 + 2m - 4m - 16 > 0 \quad m^2 - 2m - 15 > 0 \quad (m-5)(m+3) > 0$$

$$\therefore b^2 - 4ac = 0 \quad m^2 - 2m - 15 = 0 \quad (m-5)(m+3) = 0 \quad \begin{matrix} \frac{5}{+} & \frac{-3}{-} \\ \frac{5}{+} & \frac{-3}{-} \end{matrix} \quad m = 1R - [-3, 5] \quad m = -3 \quad m = 5$$

$$\text{ج: } b^2 - 4ac < 0 \quad \begin{matrix} \frac{-3}{+} & \frac{5}{-} \\ \frac{-3}{+} & \frac{5}{-} \end{matrix} \quad m = (-3, 5) \quad \checkmark$$

$$\text{د: } b^2 - 4ac > 0 \quad \checkmark \quad \text{بقیش ب.} \quad m > 5, \quad m \leq -3$$

$$\text{الف: } \Delta > 0 \quad s < 0 \quad p > 0 \quad \frac{2m+2}{m-2} < 0 \quad \frac{10}{m-2} > 0$$

$$\begin{matrix} \frac{2}{-} & \frac{2}{+} \\ \frac{2}{-} & \frac{2}{+} \end{matrix}$$

$$\begin{matrix} \frac{-1}{+} & \frac{2}{-} \\ \frac{-1}{+} & \frac{2}{-} \end{matrix}$$

اشتراک
نداره

بازای هیچ مقدار

$$\therefore \Delta > 0 \quad s < 0 \quad p < 0$$

$$(-\infty, 2) \cap (-1, 2) = (-1, 2) \quad \checkmark$$

$$\text{الف: } \Delta > 0 \quad a < 0 \quad p < 0$$

$$m-2 < 0$$

$$m < 2$$

$$\frac{10}{m-2} < 0$$

$$\begin{matrix} \frac{2}{-} & \frac{2}{+} \\ \frac{2}{-} & \frac{2}{+} \end{matrix}$$

اشتراک

$$m < 2 \quad \checkmark$$

$$\therefore \frac{-b}{2a} = -2$$

$$\frac{2m+2}{2m-2} = -2$$

$$2m+2 = -4m+4$$

$$6m = 2$$

$$m = \frac{1}{3} \quad \checkmark$$

$$4 \left(\frac{2x^2}{4} - (2 \sin \alpha) x + \frac{9}{4} \right) = 0$$

$$2x^2 - (4 \sin \alpha) x + 9 = 0$$

$$\text{if } \sin \alpha = 1$$

$$2x^2 - 4x + 9 = 0$$

$$(2x-3)^2 = 0$$

$$x = \frac{3}{2} \quad \checkmark$$

$$w x^r - y x - 1 = (w x + 1)(x - 1)$$

$$y x^r - w x - \omega = (y x - \omega)(x + 1)$$

$$\frac{-\Delta}{r_a} = \frac{r_a c - b^r}{r_a} = \frac{-1r_0 - 199}{-r_f} =$$

$$\frac{r_{19}}{r_f} = \frac{-r_{19}}{-r_f} \checkmark$$

$$\frac{(w x + 1)(x - 1)(x + 1)(y x - \omega)}{(1 - x)(1 + x)}$$

$$- (w x + 1)(y x - \omega)$$

$$y x^r - \omega x + y x - \omega = -y x^r + w x + \omega$$

$$w(x + B) - V = \omega x B$$

$$w\left(\frac{m+y}{m}\right) - V = \omega\left(\frac{-r}{m}\right)$$

$$\frac{w m + y - V m}{m} = \frac{-\omega}{m}$$

$$(x + B)^r - r_a B = x^r + B^r$$

$$\left(\frac{w}{r}\right)^r - r\left(\frac{-1}{r}\right) = \frac{9}{r} + 1 = \boxed{\frac{1w}{r}} \checkmark$$

$$\frac{-r_m + y}{m} = \frac{-\omega}{m}$$

$$19 = r_m$$

$$m = r \checkmark$$

$$f x^r - 9 x - r = 0$$

$$a + B = \omega$$

$$a B = r$$

$$B^r = \omega B - r$$

$$\frac{\Lambda + B^s}{\omega B^r} = \frac{\Lambda}{\omega B^r} + \frac{B^s}{\omega B^r} = \frac{\Lambda}{\omega B^r} + \frac{B^r}{\omega}$$

$$\frac{1}{B} = \frac{a}{r}$$

$$\frac{1}{B^r} = \frac{a^r}{\Lambda}$$

$$B^r = B \times B^r = \omega(\omega B - r) - r B$$

$$B^r = r^2 B - \omega$$

$$\frac{r^2(x + B) - r_0}{\omega} = \frac{r^2 \omega - r_0}{\omega} = \frac{9\omega}{\omega}$$

$$\frac{\Lambda}{\omega} \left(\frac{a^r}{\Lambda}\right) + \frac{1}{\omega} (r^2 B - \omega)$$

$$= \frac{a^r}{\omega} + \frac{r^2 B - \omega}{\omega} = \frac{a^r + r^2 B - \omega}{\omega}$$

$$a^r = r^2 \alpha - \omega$$

$$a x^r + b x + c = y$$

$$x = 0 \quad y = r$$

$$c = r$$

$$x = -r$$

$$9a - r b + r = r$$

$$9a = r b$$

$$r a = b$$

$$a x^r + b x + c = y$$

$$\boxed{x^r + w x + r = y}$$

$$\frac{-b}{r a} = \frac{-r}{r} \checkmark$$

$$a x^r + w a x + r = y$$

$$x = r \rightarrow r a + 9 a + r = 1r \quad 10a = 10$$

$$a = 1$$

$$r x^r + (m + 1)x + m + 9 = x$$

$$r x^r + m x + m + 9 = 0$$

$$\Delta = 0 \quad b^r - r a c = 0$$

$$m^r - \Lambda m - r \Lambda = 0$$

$$(m - 1r)(m + r) = 0$$

$$m = 1r \quad m = -r \checkmark$$