

9

S_{max}

$$-\frac{b}{2a} = -\frac{\omega_0}{-r} = \frac{r}{\omega_0} \rightarrow \frac{0}{r}$$

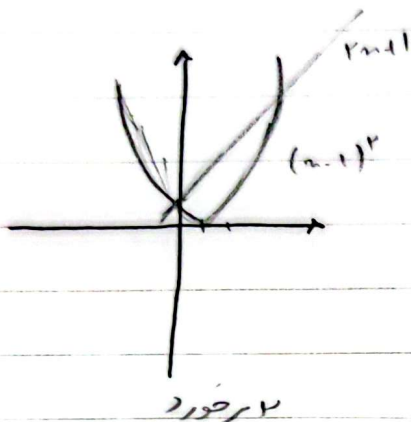
5

$$-1 \cdot \left(\frac{r}{\omega_0}\right) + \omega_0 \cdot \left(\frac{0}{r}\right) = -\frac{r}{\omega_0} + 120 = \frac{120}{r}$$

$$n_{max} = 9210$$

$$-1 \cdot t^r + \omega_0 \cdot t = t(\omega_0 - t) = 0 \rightarrow t = 0 \leq \frac{0}{\omega_0}$$

10) ا) $(n-1)^r = rn+1$



$$\begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} > \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}$$

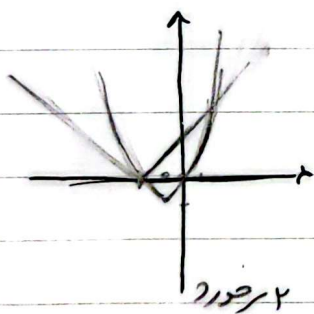
$$x^r - rn + 1 = rn + 1 \rightarrow x^r - rn = 0$$

$$x(x-r) = 0$$

9

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ب) $x^r + rx = |n+r|$
0, -r



$$\begin{vmatrix} 1 & -r \\ 1 & 0 \end{vmatrix} \begin{vmatrix} 1 & 1 \\ 1 & r \end{vmatrix}$$

$$x) \rightarrow x^r + rx = n-r \rightarrow x = \boxed{1, -r}$$

$$x < -r \rightarrow x^r + rx = -n-r \rightarrow x = \boxed{-1, -\frac{r}{x}}$$

11, 10

ستاسی عرف زاراد ، یازدهم ، صند A

$$\textcircled{1} \quad \frac{-\Delta}{F_a} = V \rightarrow -b^2 - 12 = -12 \rightarrow b = \pm 2$$

5

$$\textcircled{2} \quad x^2 = t \rightarrow t^2 + 2t + 1 = 0 \rightarrow 0 < 0 \quad \text{مطلوب ندارد} \quad \text{نفا}$$

$$t = x^2 = 1 \rightarrow (1-0)(1+0) = 2 \quad F \cdot x^2 = 0 \rightarrow x^2 = -1 \quad \text{خ}$$

$$F \cdot x^2 = -1 \rightarrow x^2 = -1 \rightarrow x = \pm i$$

$$\textcircled{3} \quad S = x + x + 2 = \frac{14}{2} = 7 \rightarrow 2x = 7 \rightarrow x = 3.5 \rightarrow x + 2 = 7.5$$

$$\frac{m}{F} = 9B = 9 \rightarrow m = 12$$

$$\Delta > 0 \rightarrow 204 - 14m > 0 \rightarrow m < 14.7 \quad \checkmark$$

$$\textcircled{4} \quad F_a - B = F \rightarrow S = a + B = 2 \rightarrow B = 2 - a$$

$$2a + a - 2 - 5 = 0 \rightarrow a = 2 \rightarrow B = 0$$

$$\frac{m-1}{F} = 0 \rightarrow m = 1$$

$$0 > 0 \rightarrow 204 - 12m + 12 > 0 \rightarrow m < 17 \quad \checkmark$$

$$\textcircled{5} \quad am^2 - r = -m \rightarrow m^2 + m - r = 0 \rightarrow m = -1, 1$$

$$m = -1 \rightarrow r x^2 + Fx + 2 = 0 \rightarrow x^2 + 12x + 1 = 0 \rightarrow \Delta > 0$$

$$m = 1 \rightarrow -x^2 + Fx - 1 = 0 \rightarrow \Delta > 0 \quad \checkmark \rightarrow m = 1$$

$$\textcircled{6} \quad aB = r \rightarrow a = \frac{r}{B} \rightarrow aB^2 = 5 \rightarrow rB = 5 \rightarrow B = \frac{5}{r}$$

$$\rightarrow a = \frac{9}{r} \quad a + B = m \rightarrow \frac{9}{r} + \frac{5}{r} = \frac{14}{r} = \frac{14}{12} = \frac{7}{6}$$

$$\textcircled{7} \quad \alpha, \alpha \quad F_a = F \rightarrow \alpha = 1$$

$$r \alpha^2 = m \rightarrow r = m$$

$$\textcircled{8} \quad aB = r \rightarrow a = \frac{r}{B}$$

$$\left(\alpha + \frac{r}{\alpha} \right) \left(\alpha^2 - r + \frac{F}{\alpha} \right)$$

$$= (\alpha + B) (\alpha^2 + B^2 - r) = (V) (F - F - r)$$

$$= V(F - r) = 1201$$

1, 10 = 1000 -