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$$\frac{f(a-b)^2}{f_a} = \frac{12+b^2}{f} = 4 \Rightarrow b^2=12 \rightarrow b=\pm 2\sqrt{3}$$

۲) $t^2 + 2t + 3 = 0 \rightarrow \Delta < 0$ صفری نمی شود

۳) $x^4 - 14x^2 + 14 + 2x^2 - 1 - 1 = 0 \Rightarrow x^4 - 12x^2 + 12 = 0 \Rightarrow (x^2-2)(x^2-10) = 0$
 $x^2 = 2 \rightarrow x = \pm \sqrt{2}$
 $x^2 = 10 \rightarrow x = \pm \sqrt{10}$

۴) $a, a+2 \rightarrow 2a+2=4 \rightarrow a=1, B=3 \Rightarrow P=\frac{m}{f}=3 \rightarrow m=12$

۵) $B=2a-f \rightarrow 2a-f=2 \rightarrow a=2, B=0 \Rightarrow \frac{m-1}{f}=0 \rightarrow m=1$

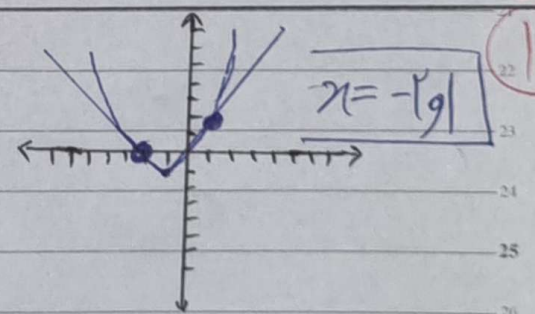
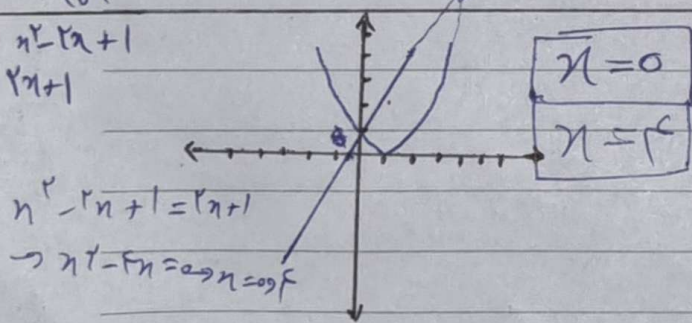
۶) $a, \frac{1}{a} \rightarrow P=\frac{m^2-2}{-m}=1 \rightarrow (m+2)/(m-1)=0$
 $m=-2 \rightarrow \Delta=0$
 $m=1 \rightarrow \Delta=0$

۷) $a=\frac{B}{f} \rightarrow P=\frac{f}{B}=3 \rightarrow B=\frac{f}{3}, a=\frac{9}{f} \rightarrow S=m=\frac{9}{f}+\frac{f}{3}=\frac{f^2+9}{3f}$

۸) $a, 2a \rightarrow 2a=f \rightarrow a=1, B=3 \rightarrow P=m=3$

۹) $aB=2 \rightarrow B=\frac{2}{a} \rightarrow a^2+1=a^2+B^2=S^2 \Rightarrow P=\frac{S}{P}=2 \Rightarrow 2^2+2^2-4=0$

۱۰) $\frac{-\Delta}{f_a} = \frac{-2\omega_0}{-f_0} = 92\omega_0 / -10t^2 + \omega_0 t = 0 \rightarrow t=0 \text{ or } \omega_0 \rightarrow$ نشان بر توری است



$x^2-2x+1 \rightarrow x=0 \rightarrow y=1$

$x^2-2x+1 \rightarrow y=0 \rightarrow x=-1$

$x^2-2x+1 \rightarrow \frac{-b}{2a} = 1, \frac{-\Delta}{f_a} = 0$

$x=0 \rightarrow y=1$

$y=0 \rightarrow x=1, \Delta=0$

$|x+2| \rightarrow x=0 \rightarrow y=2/y=0 \rightarrow x=-2$

$x^2+2x \rightarrow \frac{-b}{2a} = -1, \frac{-\Delta}{f_a} = -1$

$x=0 \rightarrow y=0$

$y=0 \rightarrow x=0, -2$