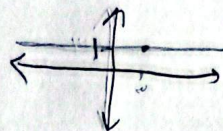


الف) $y^3 - x = 2x^2$ هست
 $y^3 = 2x^2 + x$
 $y = \sqrt[3]{2x^2 + x}$

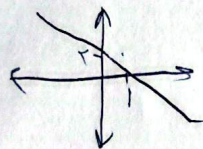
ب) $\sqrt{x-4} + |y-2| = 0$ هست
 $\sqrt{x-4} = 0 \rightarrow x = 4$
 $|y-2| = 0 \rightarrow y = 2$

ب) $|y| + x^2 = x^4$ نیست
 $|y| = x^4 - x^2$
 $|y| = x^2(x^2 - 1)$
 $|y| = x^2(x-1)(x+1)$

ب) $y = \cos x$ نیست
 $y = \cos x$ در $x = 0, \pi, 2\pi, \dots$



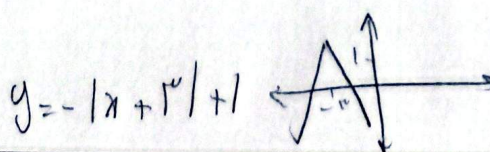
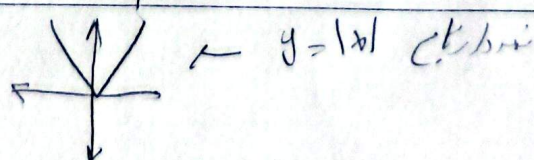
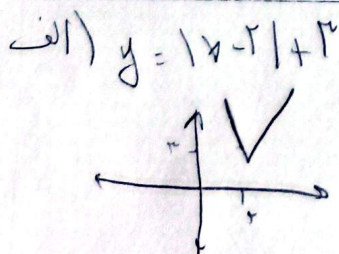
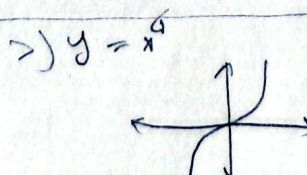
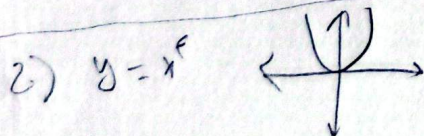
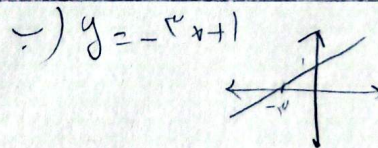
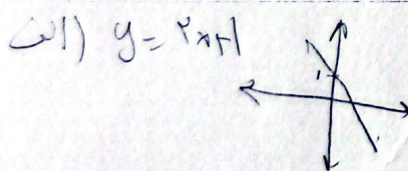
الف) ثابت گذرا
 $y = k$



ب) قطعی گذرا یا بایست ۲ واحد
 $y = -2x + 2$

ب) سهمی $y = x^2 + ax + b$
 $1 = 4 + 2a + b$
 $-3 = 2a + b$

الف) $y = a + b$
 $y = a + b$



٣٠

١٣

١) $y = \frac{x+2}{x^2-4x}$

$D_F = R - \{0, 4\}$

٢) $y = \frac{x+2}{x^2-4x}$ $D_F = R - \{0, 4\}$

٣) $y = \sqrt{x-2} + \sqrt{x-1}$ $D_F = (2, \infty)$

$x-2 \geq 0 \Rightarrow x \geq 2$
 $x-1 \geq 0 \Rightarrow x \geq 1$
 $x \geq 2$

٤) $y = \frac{\sqrt{x-2}}{x-2}$ $D_F = [1, \infty)$

cos

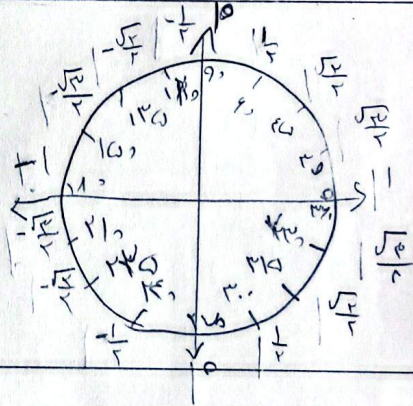
٥) $y = \frac{x+2}{x^2-4x}$ $D_F = R - \{0, 4\}$

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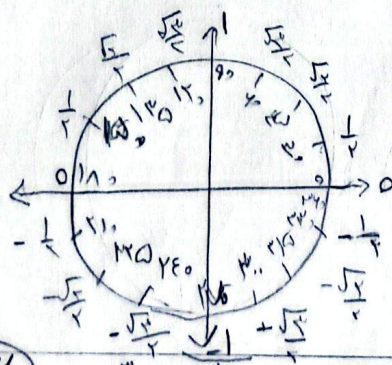
٦) $y = \frac{x+2}{x^2-4x}$ $D_F = R - \{0, 4\}$

٧) $y = \frac{x+1}{x^2+1}$ $D_F = R$

٨) $y = \frac{x+1}{x^2+1}$ $D_F = R$



sin



$\frac{1}{2} \cos \theta = \frac{1}{2} \Rightarrow \cos \theta = 1 \Rightarrow \theta = 0$

$\frac{1}{2} \sin \theta = \frac{1}{2} \Rightarrow \sin \theta = 1 \Rightarrow \theta = \frac{\pi}{2}$