

$$f = \left\{ (1, f_a), (1, a^1 + r), (r, r_a) \right\}$$

$$r_a = a^1 + r \Rightarrow a^1 + r - f_a = 0 \Rightarrow (a-1)(a-r) \dots$$

الف) $|y| = |x|$

عبارت $(x, y) = (x, x)$



r

ب) $|y| + \sqrt{x-1} = 0 \Rightarrow |y| = -\sqrt{x-1}$

چون $\sqrt{x-1} \geq 0$ و $|y| \geq 0$ پس تنها راه $x=1, y=0$ است.



الف) $|y-1| = \sqrt{x-1}$

$\Rightarrow x=1 \Rightarrow |y-1| = 0 \Rightarrow y=1$

$y-1=r \Rightarrow y=r+1$
 $y-1=-r \Rightarrow y=-r+1$

ب) $y^2 - y = \frac{x^1}{r}$

$\Rightarrow x=0 \Rightarrow y^2 - y = 0 \Rightarrow y(y-1) = 0$

ج) $\sin^r x + \cos^r \frac{y}{r} = 1$

$\Rightarrow x=0 \Rightarrow y = r^2, r^2, \dots, \cos 1/r = -1$

د) $r_n y = x$

در صورتی که r_n ثابت باشد

الف) $x^1 + |y-1| = r_n \quad x=1$

$1 + |y-1| = r \Rightarrow |y-1| = r-1 \Rightarrow y-1 = r-1 \Rightarrow y=r$
 $y-1 = -(r-1) \Rightarrow y-1 = -r+1 \Rightarrow y = -r+2$

r

ب) $y^2 + r_n = 0$

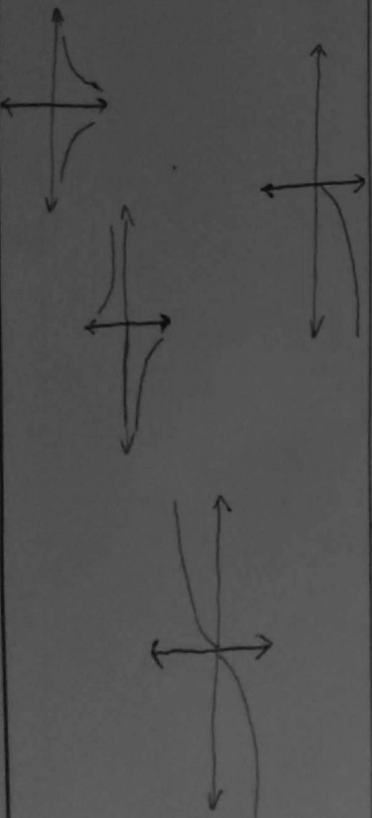
در صورتی که r_n ثابت باشد
 $x=0, y=0$

الف) $y = \sqrt{x}$

ب) $y = \sqrt{x}$

ج) $y = \frac{1}{x^r}$

د) $y = \frac{1}{x^r}$



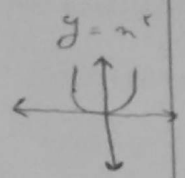
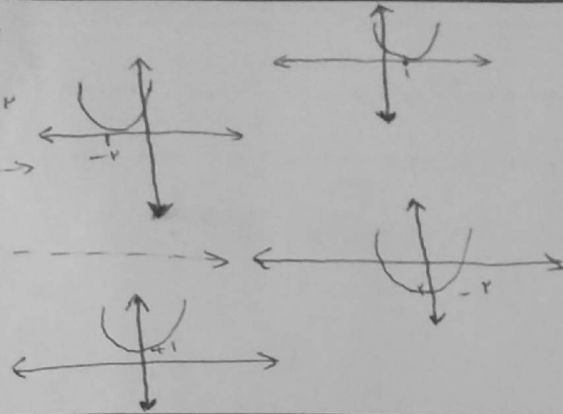
o

$$a) y = (n-1)^r$$

$$b) y = (n+r)^r$$

$$c) y = n^r - r$$

$$d) y = n^r + 1$$

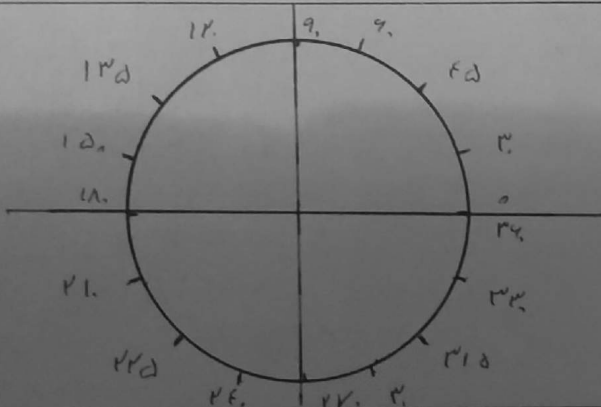
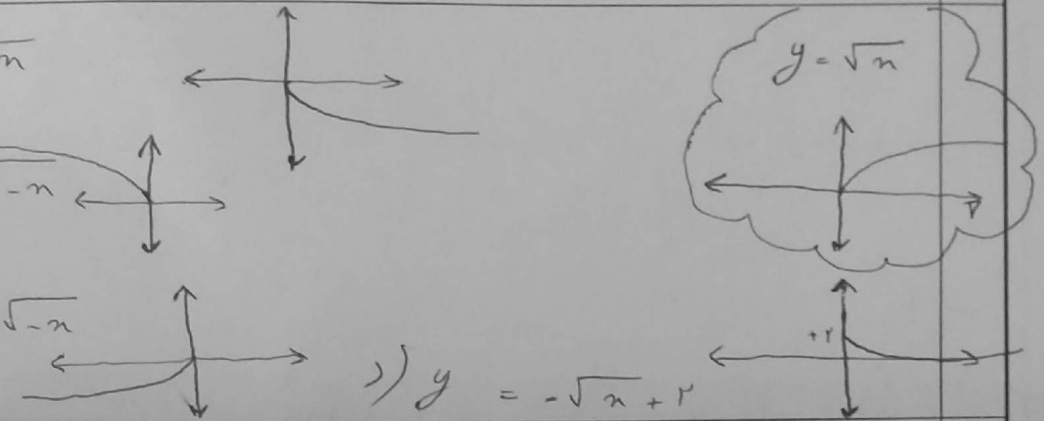


$$a) y = -\sqrt{n}$$

$$b) y = \sqrt{-n}$$

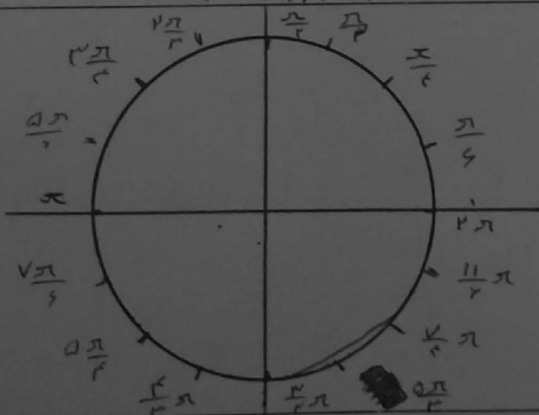
$$c) y = -\sqrt{-n}$$

$$d) y = -\sqrt{n} + r$$



$$\cos \rightarrow x$$

$$\sin \rightarrow y$$



$$\cos \rightarrow x$$

$$\sin \rightarrow y$$

$$a) \cos 110^\circ = -\frac{1}{r}$$

$$b) \sin 10^\circ = \frac{1}{r}$$

$$c) \cos \frac{11\pi}{6} = \frac{1}{r}$$

$$d) \sin \frac{11\pi}{6} = -\frac{1}{r}$$