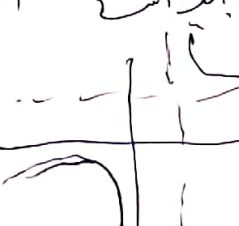
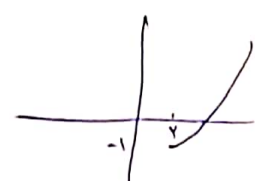


$(3, 2)$ و $(m, 2)$ و $(3, n^2 - n)$ $m = 3$ $n^2 - n = 2$ $(n-2)(n+1)$ $n < 2$ $n = -1$ و $(-1, 4), (n, a)$ غنّ	$(m, 3)$ و $(2, 3)$ $m = 2$ $(a, m-1)$ و $(-1, 1)$ $a = -1$ $(a+2, n)$ و $(1, 2)$ $n = 2$ $m = 2$ $a = -1$ $n = 2$	۱
$3m-1$; $m \geq 1$ $\min = 2$ $a = a$; $m < 1$ $a+1 \leq 2$ $m > a \leq 1$ $(-\infty, 1]$		۲
$3m-1$; $m \geq 1$ $\min = 2$ $a \neq a-1$; $m \leq 0$ $a-1 < 2$ $a < 3$ $a > 0$ } $a > 0$ $a \neq 0$ } $0 < a < 3$		۳
 $y = x^2 + 2$ $x = y^2 + 2$ $y = \sqrt{x-2}$	دارای دو دایره است $y = x^2 - 4x + 2$ $\frac{-b}{2a} = \frac{4}{2} = 2$ پس یک دایره نیست	۴
$\frac{3m+1}{m-2}$ $\frac{3m+1}{m-2}$ $\frac{3m+1}{m-2}$  $n = \frac{3y+1}{y-2}$ $ny - 2m = 3y+1$ $ny - 3y = 2m+1$ $y(n-3) = 2m+1$	$\frac{3m+4}{m+4} = \frac{2(m+4)}{m+4}$  یک دایره نیست	۵

$$y = \frac{3m+1}{m-2}$$

$y = \sqrt{x-r}$  $x = \sqrt{y-r}$ $y = x^2 + r, \quad x \geq 0$	 $[r, +\infty) \rightarrow y = \sqrt{x+1} + r$ $x+1 = (y-r)^2$ $y = \pm \sqrt{x+1} + r$
$y = x + \sqrt{x}$ $y = t^2 + t$ $t^2 + t - y = 0$ $\Delta = b^2 - 4ac = 1 + 4y$ $-b \pm \sqrt{\Delta} = \frac{-1 \pm \sqrt{1+4y}}{2a} = t$	$x = t^2 = \frac{1 \pm \sqrt{1+4y} - r \pm \sqrt{1+4y}}{2}$ $x = 1 + \frac{1}{4}y + \frac{1}{4}\sqrt{1+4y}$ $y = \frac{1}{4}x + \frac{1}{4} + \frac{1}{4}\sqrt{1+4y}$ $\frac{a=1 \quad b=\frac{1}{4} \quad c=-\frac{1}{4}}{}$ $\begin{matrix} a+b+c \\ 1+\frac{1}{4}-\frac{1}{4} \\ \hline 1 \end{matrix}$
$y_1 = y_2 \Rightarrow \frac{n_1^r}{n_1^r - r} = \frac{n_2^r}{n_2^r - r} \Rightarrow n_1^r = n_2^r \rightarrow n_1 = n_2$ $y = \frac{n}{\sqrt{n^2 - r}}$ $n = \sqrt{\frac{y}{y^2 - r}}$	$n^r y^r - n^r y = y$ $y^r = \frac{r n^r}{n^r - 1} \Rightarrow y = \frac{r}{n} \sqrt{\frac{r n^r}{n^r - 1}}$
$y = \frac{n}{1+ n }$ $n = \frac{y}{1+ y }$ $n + n y = y$ $n = y - n y$ $n = y(1 - n)$	$\frac{n}{1- n } = y$ $y = \sqrt{n} - 1$ $n = \sqrt{y+1}$ $y = (n+1)^r$ $f(x) = \frac{n}{1- n }$ $f^{-1}(n) = (n+1)^r$ $\frac{q}{ra} - \frac{r}{r} = \frac{rv - d_0}{va} = \frac{-rv}{va}$
$f(n) = \sqrt[n]{n-1}$ $y = n^r + 1$ $g(n) = n^r + 1 + \sqrt{n^r + 1}$ $n^r + 1 + \sqrt{n^r + 1} = 12$ $x = 2$	$x = 2$