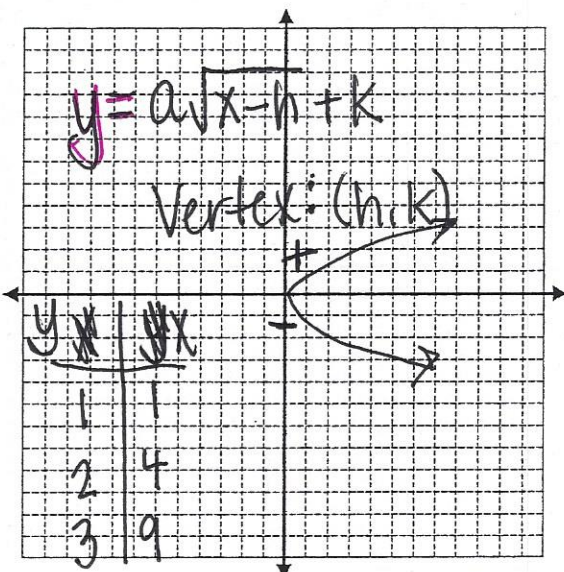


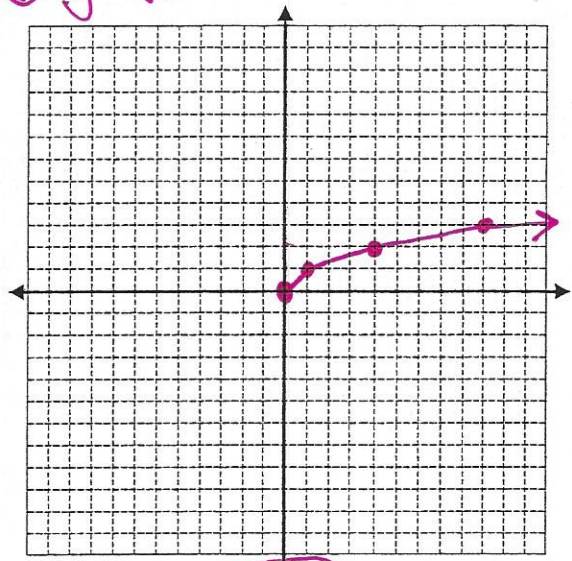
# Square Root Functions

$$y = a\sqrt{x-h} + k$$

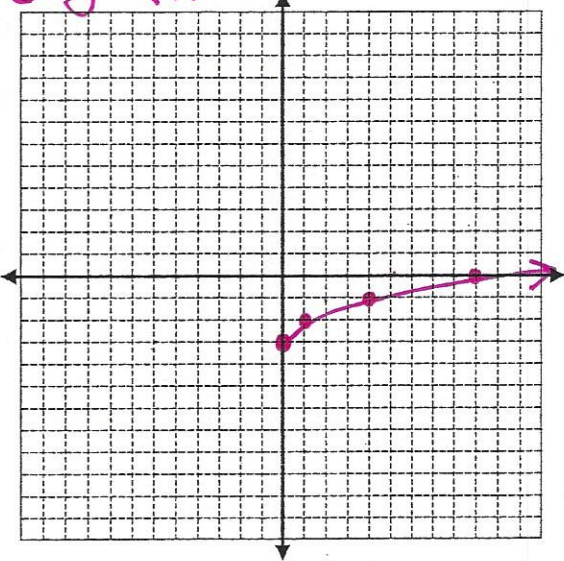
Vertex:  $(h, k)$



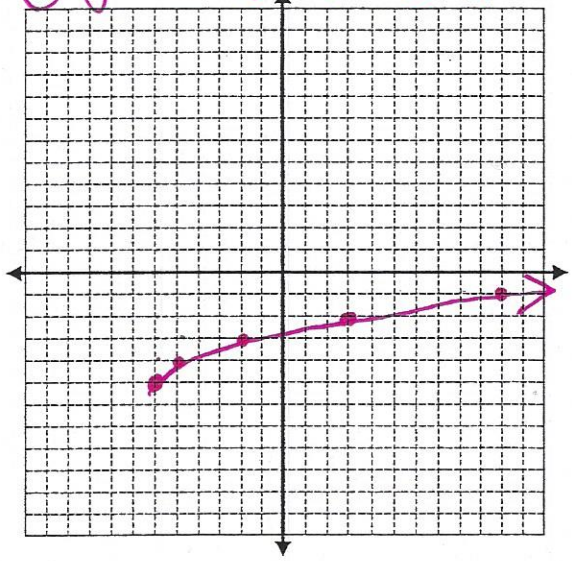
$$① y = \sqrt{x}$$



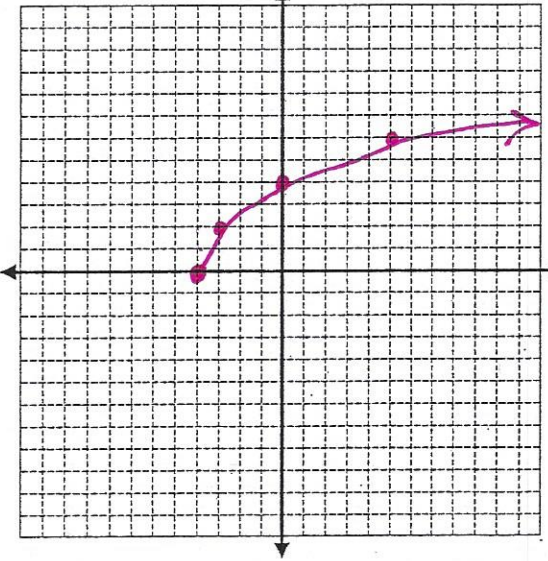
$$② y = \sqrt{x} - 3$$



$$③ y = -5 + \sqrt{x+6} \quad y = \sqrt{x+6} - 5$$



$$④ y = 2\sqrt{x+4}$$



a	y	x
1	1	1
2	4	4
3	9	9

$\frac{1}{2}$	y	x
$\frac{1}{2}$	1	1
1	2	4
$1\frac{1}{2}$	3	9

$$⑤ y = -\frac{1}{2}\sqrt{x+2} + 1$$

