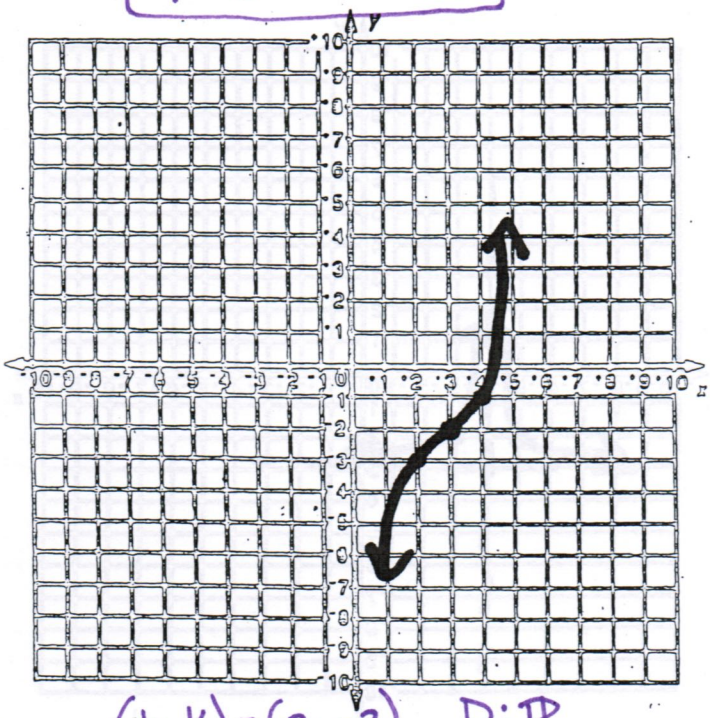
Find equation for each graph then its Domain & Range. ①

Key

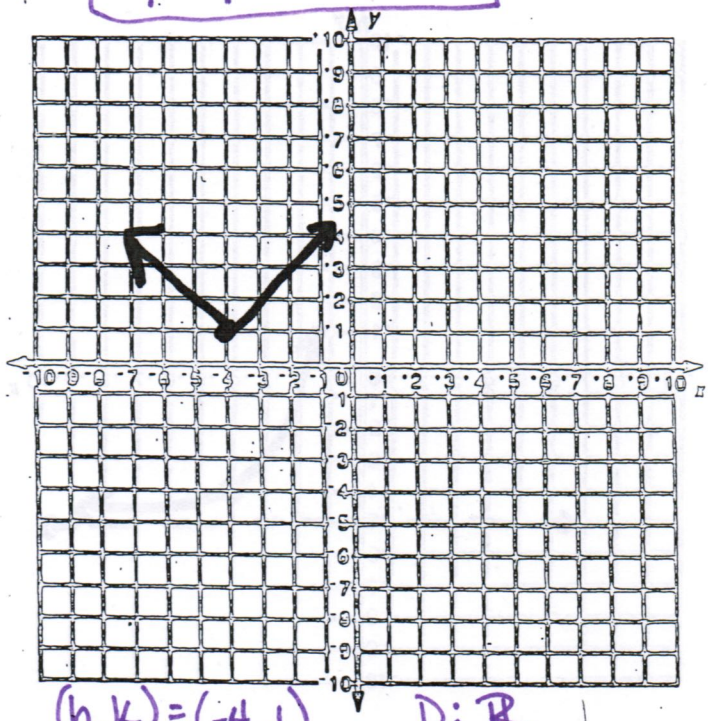
WKST #5

$y=(x-3)^3-2$



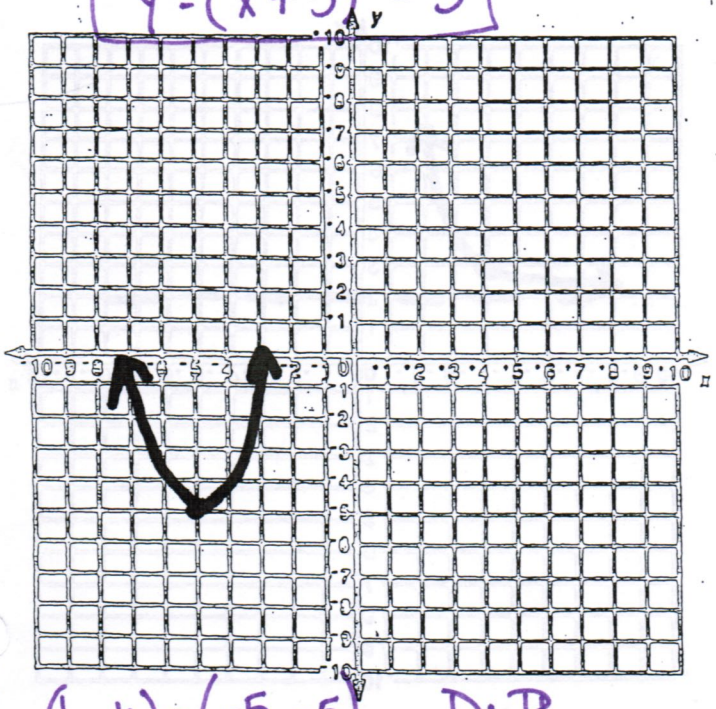
$(h,k)=(3,-2)$ D: $\mathbb{R}$
R: $\mathbb{R}$

$y=|x+4|+1$



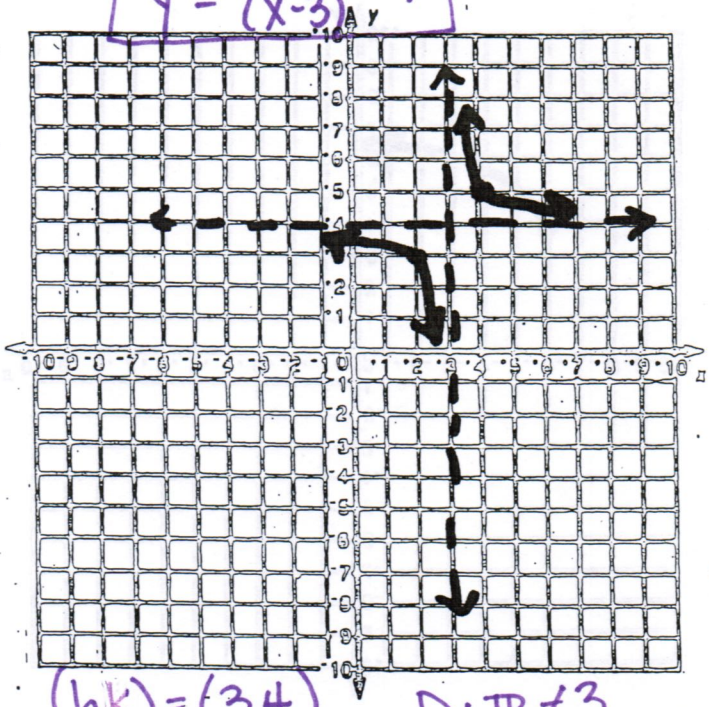
$(h,k)=(-4,1)$ D: $\mathbb{R}$
R: $\mathbb{R} \geq 1$

$y=(x+5)^2-5$



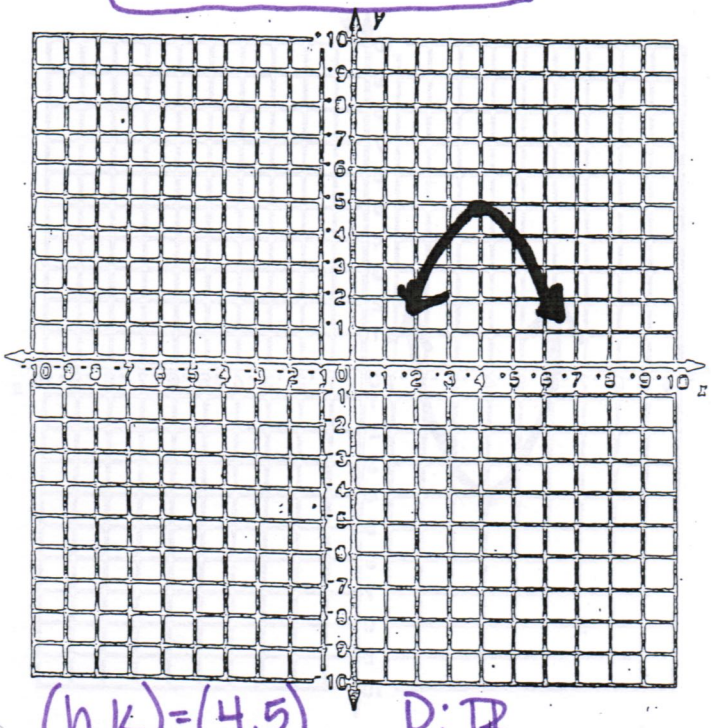
$(h,k)=(-5,-5)$ D: $\mathbb{R}$
R: $\mathbb{R} \geq -5$

$y=\frac{1}{(x-3)}+4$



$(h,k)=(3,4)$ D: $\mathbb{R} \neq 3$
R: $\mathbb{R} \neq 4$

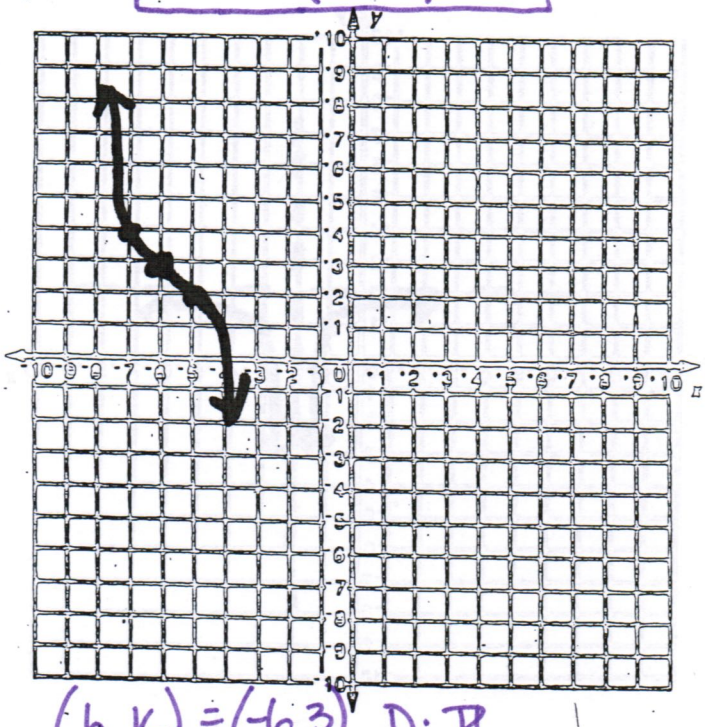
$$y = -(x-4)^2 + 5$$



$(h,k) = (4,5)$ D: $\mathbb{R}$

R: $\mathbb{R} \leq 5$

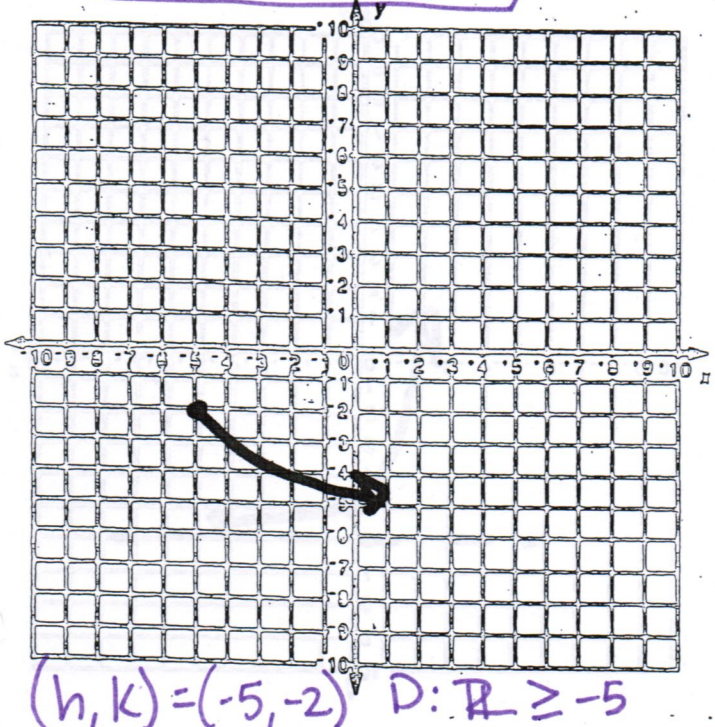
$$y = -(x+6)^3 + 3$$



$(h,k) = (-6,3)$ D: $\mathbb{R}$

R: $\mathbb{R}$

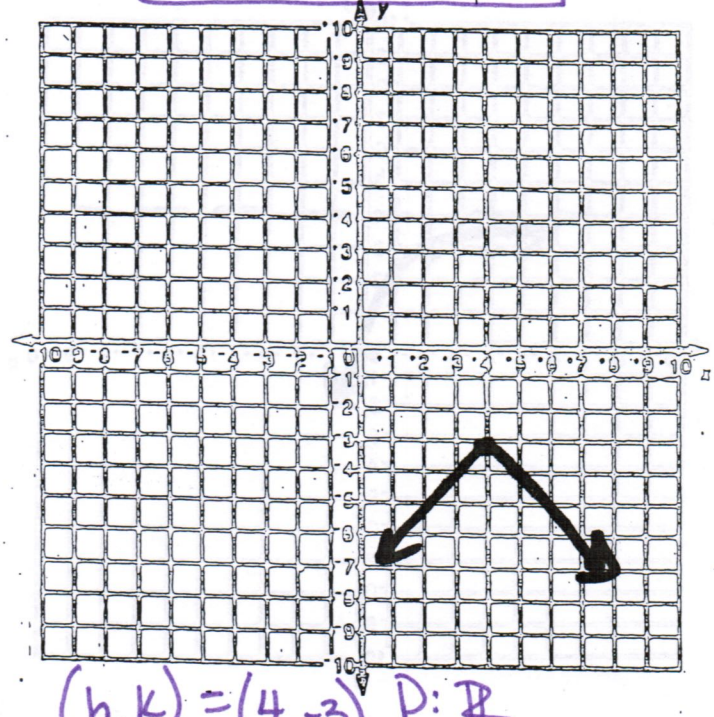
$$y = -\sqrt{x+5} - 2$$



$(h,k) = (-5,-2)$ D: $\mathbb{R} \geq -5$

R: $\mathbb{R} \leq -2$

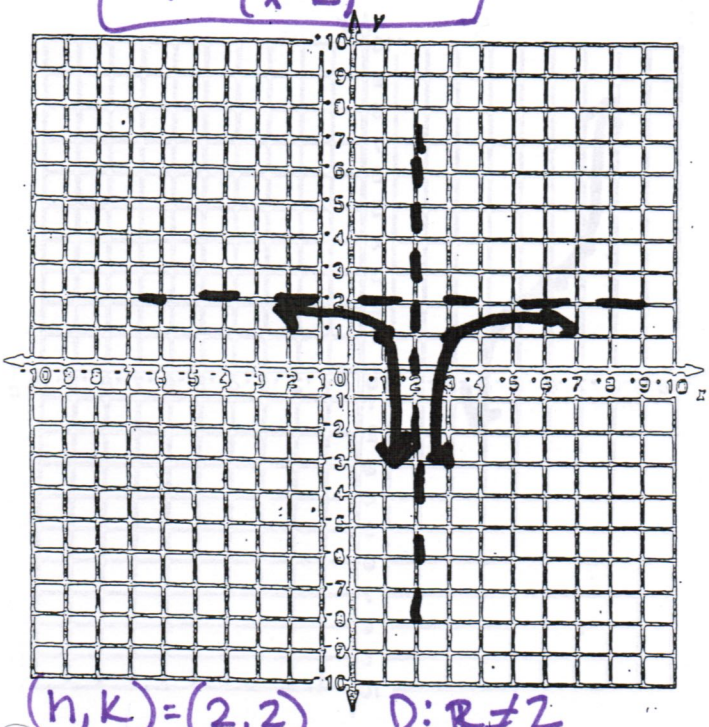
$$y = -|x-4| - 3$$



$(h,k) = (4,-3)$ D: $\mathbb{R}$

R: $\mathbb{R} \leq -3$

$$y = \frac{-1}{(x-2)^2} + 2$$

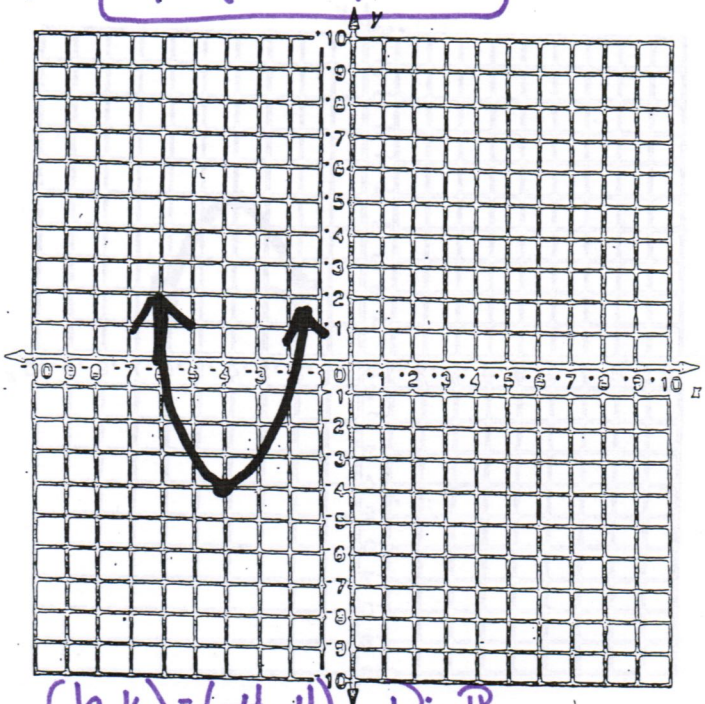


$(h,k) = (2,2)$

D: $\mathbb{R} \neq 2$

R: $\mathbb{R} < 2$

$$y = (x+4)^2 - 4$$

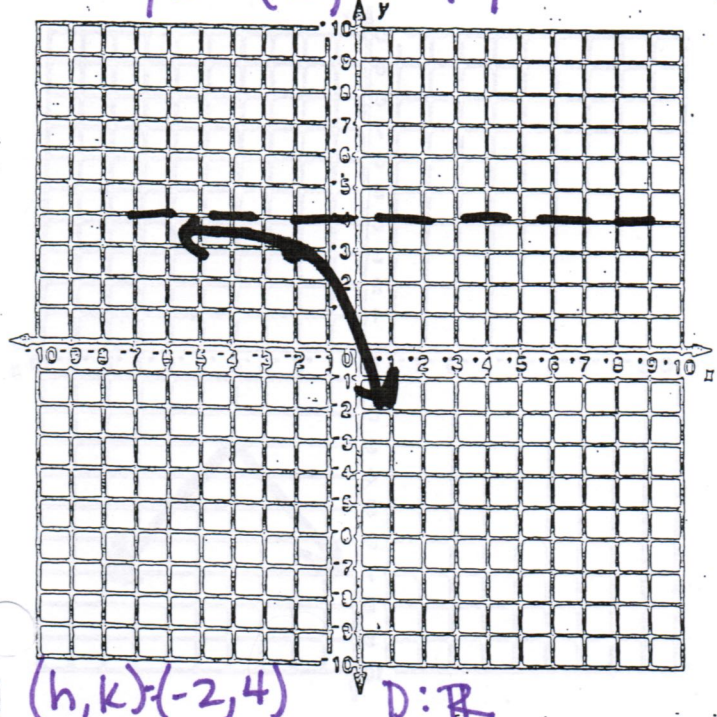


$(h,k) = (-4,-4)$

D: $\mathbb{R}$

R: $\mathbb{R} \geq -4$

$$y = -(2)^{x+2} + 4$$

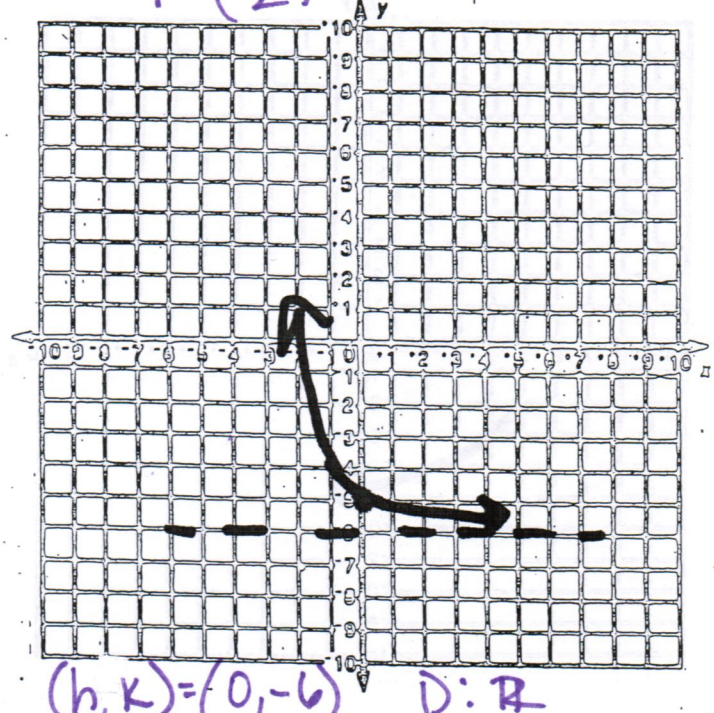


$(h,k) = (-2,4)$

D: $\mathbb{R}$

R: $\mathbb{R} < 4$

$$y = \left(\frac{1}{2}\right)^x - 6$$

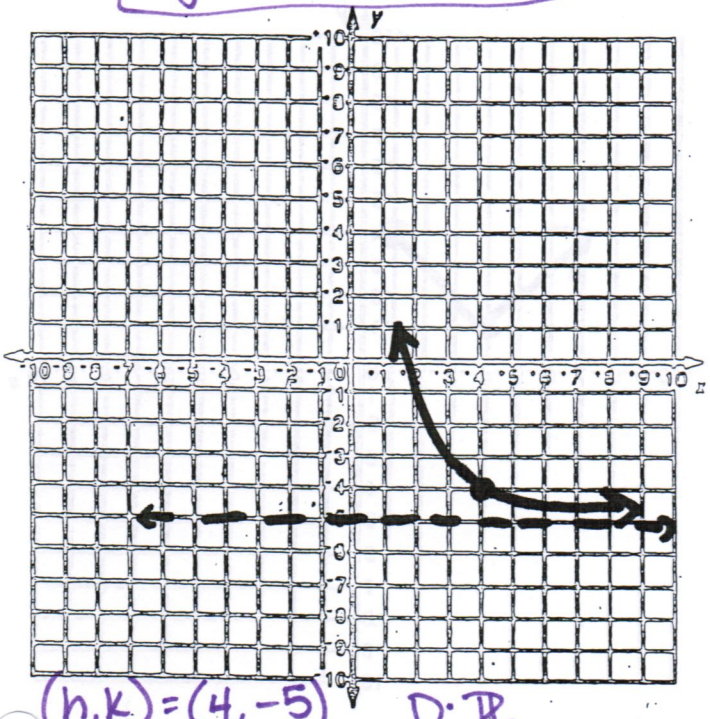


$(h,k) = (0,-6)$

D: $\mathbb{R}$

R: $\mathbb{R} > -6$

$$y = \left(\frac{1}{2}\right)^{x-4} - 5$$

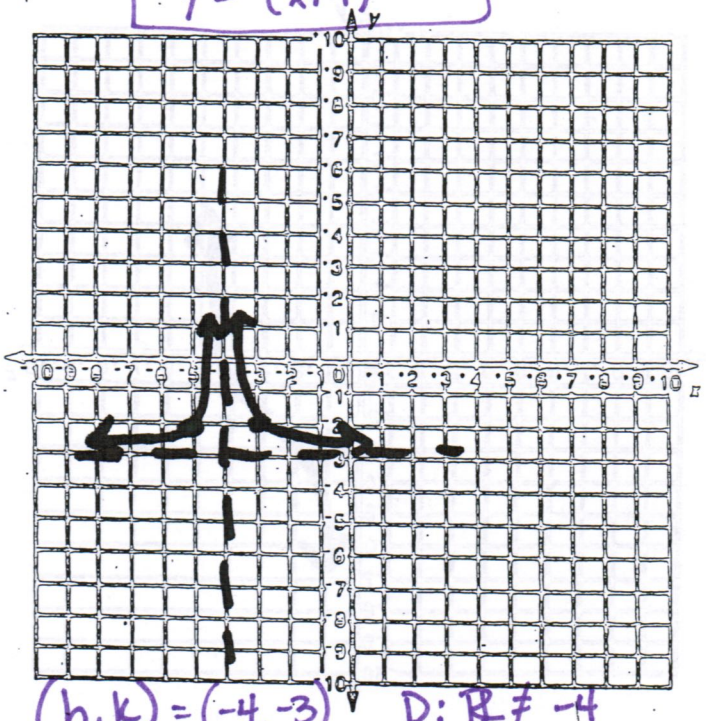


$(h,k) = (4,-5)$

D: $\mathbb{R}$

R: $\mathbb{R} > -5$

$$y = \frac{1}{(x+4)^2} - 3$$

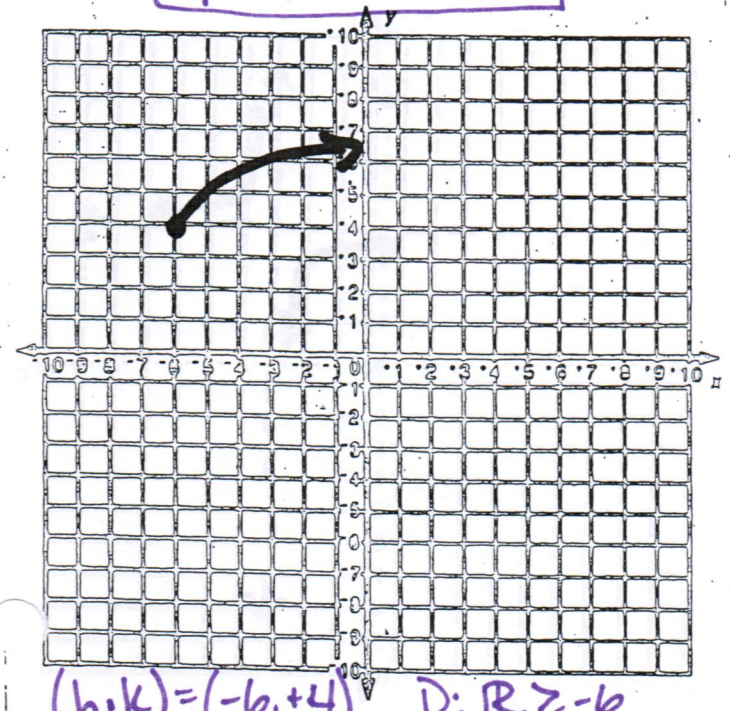


$(h,k) = (-4,-3)$

D: $\mathbb{R} \neq -4$

R: $\mathbb{R} > -3$

$$y = \sqrt{x+6} + 4$$

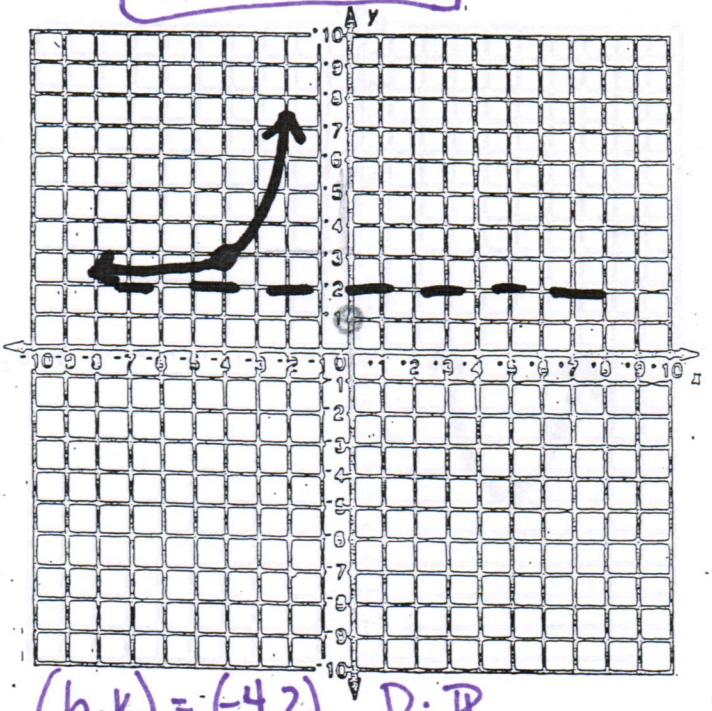


$(h,k) = (-6,+4)$

D: $\mathbb{R} \geq -6$

R: $\mathbb{R} \geq 4$

$$y = 2^{x+4} + 2$$



$(h,k) = (-4,2)$

D: $\mathbb{R}$

R: $\mathbb{R} > 2$