

Unit 3---Lesson 5-CLASSWORK/HOMEWORK

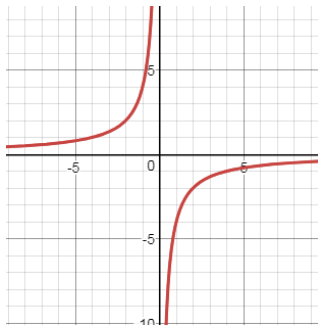
Graph the following inverse functions

1. $y = \frac{-4}{x}$

Shift Description: **Reflected**

Asymptote: **$x=0$**

Parent: **$y = \frac{1}{x}$**



x	y
-1	-1
1	1

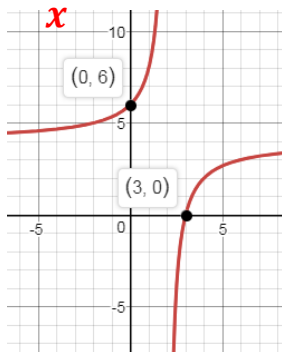
x	y
-4	1
-2	2
-1	4
1	-4
2	-2

2. $y = \frac{-4}{(x-2)} + 4$

Shift Description: **Right 2, Up 4, Reflected**

Asymptote: **$x=2$**

Parent **$y = \frac{1}{x}$**



x	y
-1	-1
1	1

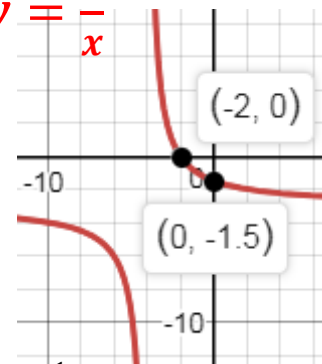
x	y
-2	5
0	6
1	8
3	0
4	2

3. $y = \frac{6}{(x+4)} - 3$

Shift Description **Left 4, Down 3**

Asymptote: **$x=-4$**

Parent **$y = \frac{1}{x}$**



x	y
-1	-1
1	1

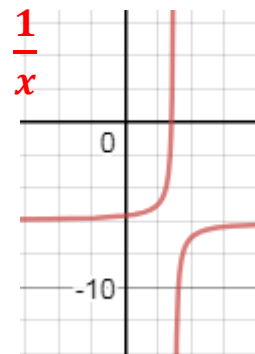
x	y
-7	-5
-6	-6
-5	-9
-3	3
-2	0

4. $y = \frac{-1}{(x-3)} - 6$

Shift Description **Right 3, Down 6, Reflected**

Asymptote **$x=3$**

Parent **$y = \frac{1}{x}$**



x	y
-1	-1
1	1

x	y
2	-5
4	-7

