

Algebra 2
Review 8.1-8.4

Quiz 8.3-8.4 today 11:15
MCT 8.1-8.4 tomorrow

Example 1

Simplify $\frac{4a}{3b} \cdot \frac{9b^4}{2a^2}$.

Example 2

Simplify $\frac{r^2 + 5r}{2r} \div \frac{r^2 - 25}{6r - 12}$.

Example 3

Simplify $\frac{3a}{a^2 - 4} - \frac{2}{a - 2}$.

PT p. 552
odds

Example 4

Graph $f(x) = \frac{3}{x+2} - 1$. State the domain and range.

$$x+2=0$$

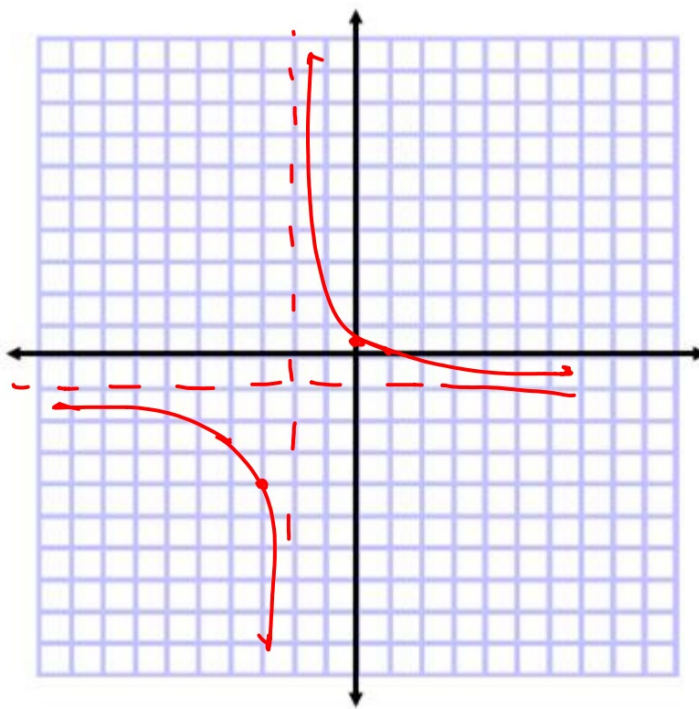
$$-2 \quad -2$$

$$x = -2$$

	$\frac{3}{x+2}$	-1	
0	$\frac{3}{2}$	-1	5
1	$\frac{3}{3}$	-1	0
-3	$\frac{3}{-1}$	-1	-4
-4	$\frac{3}{-2}$	-1	-2.5

D: ARN $x \neq -2$

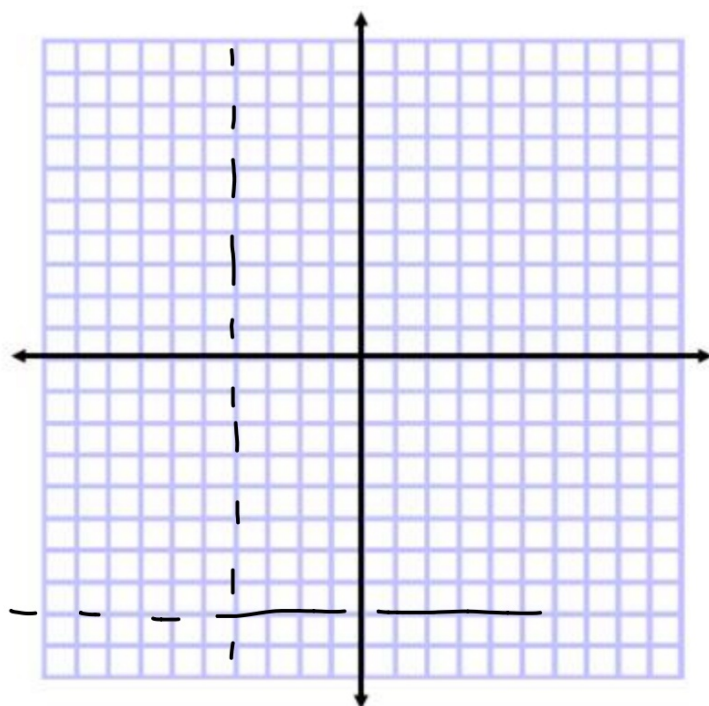
R: ARN $y \neq -1$



29. $f(x) = -\frac{4}{x+4} - 8$



1. Analyze (parent graph)
2. Sketch
3. Use technology (table)



$$\text{PD } x=2$$

Quiz 8.3-8.4

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

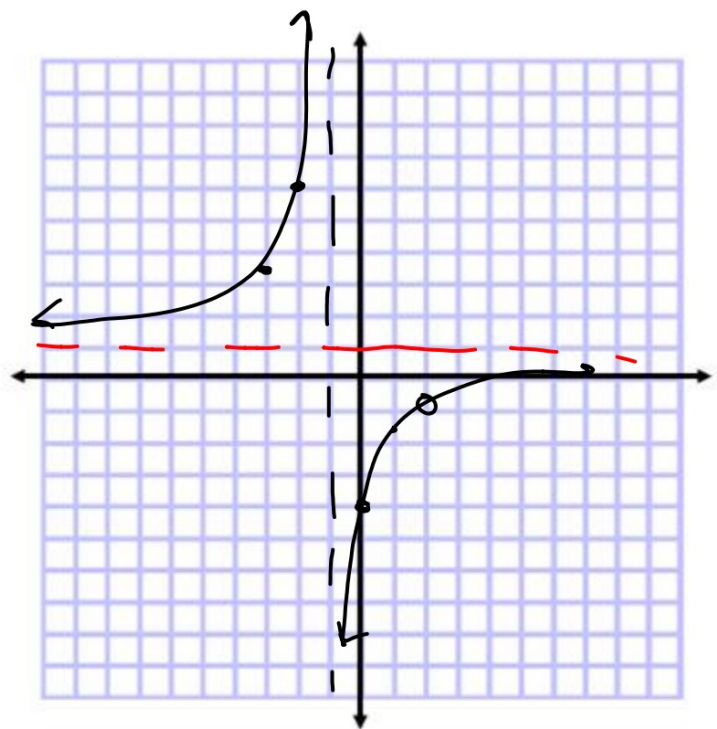
$$\frac{1x'}{1x'}$$

$$y = \frac{x'-4}{x'+1}$$

$$x+1=0$$

$$x=-1$$

0	0-4	-4
1	0+1	1
-2	-6-1	-7
-3	-7-1	-8
1	-7	-8
	-2	



$$\frac{\cancel{(x-1)}}{\cancel{(x-1)}(x+3)}$$

$$x-1=0$$

$$\boxed{x=1}$$

$$\frac{1}{x+3}$$

