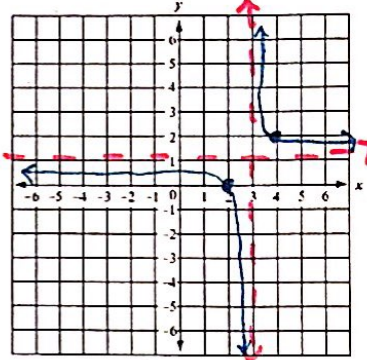
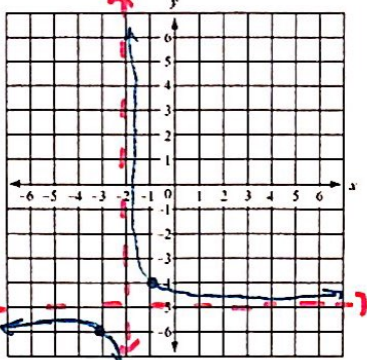
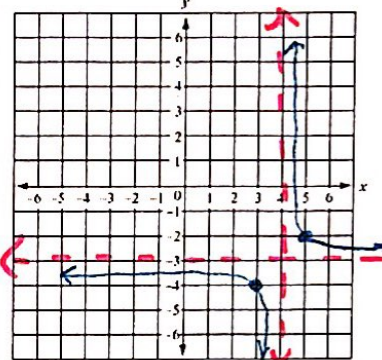
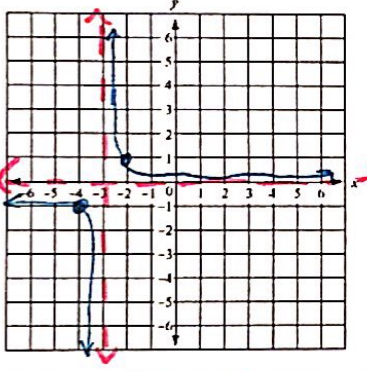
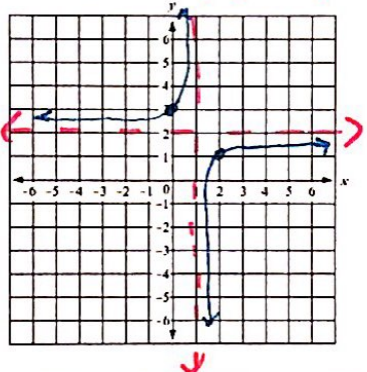
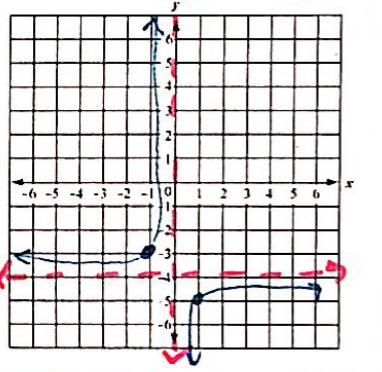


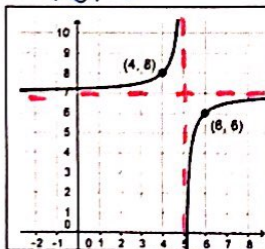
Practice: Graphing Rational Functions

Graph each rational function.

<p>1) <math>y = \frac{1}{x-3} + 1</math></p> 	<p>2) <math>y = \frac{1}{x+2} - 5</math></p> 	<p>3) <math>y = \frac{1}{x-4} - 3</math></p> 
<p>Domain: <math>x \neq 3</math></p> <p>Range: <math>y \neq 1</math></p> <p>H.A.: <math>y = 1</math></p> <p>V.A.: <math>x = 3</math></p>	<p>Domain: <math>x \neq -2</math></p> <p>Range: <math>y \neq -5</math></p> <p>H.A.: <math>y = -5</math></p> <p>V.A.: <math>x = -2</math></p>	<p>Domain: <math>x \neq 4</math></p> <p>Range: <math>y \neq -3</math></p> <p>H.A.: <math>y = -3</math></p> <p>V.A.: <math>x = 4</math></p>
<p>4) <math>y = \frac{1}{x+3}</math></p> 	<p>5) <math>y = \frac{-1}{x-1} + 2</math> Reflect</p> 	<p>6) <math>y = \frac{-1}{x} - 4</math> Reflect</p> 
<p>Domain: <math>x \neq -3</math></p> <p>Range: <math>y \neq 0</math></p> <p>H.A.: <math>y = 0</math></p> <p>V.A.: <math>x = -3</math></p>	<p>Domain: <math>x \neq 1</math></p> <p>Range: <math>y \neq 2</math></p> <p>H.A.: <math>y = 2</math></p> <p>V.A.: <math>x = 1</math></p>	<p>Domain: <math>x \neq 0</math></p> <p>Range: <math>y \neq -4</math></p> <p>H.A.: <math>y = -4</math></p> <p>V.A.: <math>x = 0</math></p>

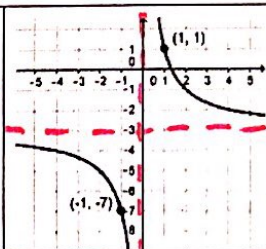
Write an equation for each rational function.

10) Reflects



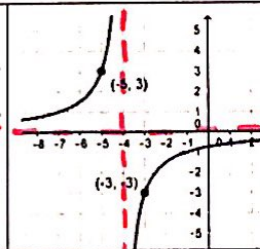
$$y = \frac{-1}{x-5} + 7$$

11)



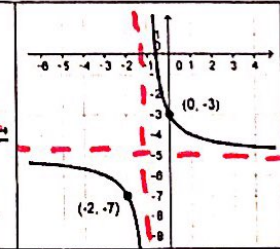
$$y = \frac{4}{x} - 3$$

12) Reflects



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

13)



$$y = \frac{2}{x+1} - 5$$