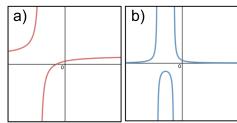
MHF4U - Rational Functions

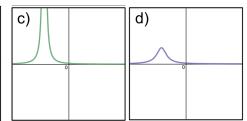
Name: _____

Date: _____

For each of the following questions choose the best answer

1. Which graph is most like the graph of a function in the form $f(x) = \frac{ax+b}{cx+d}$





- 2. In the function $f(x) = \frac{ax+b}{cx+d}$, which coefficient(s) will change the x intercept?
- a) a only
- b) b only
- c) c only
- d) d only

- e) a & b
- f) c & d
- g) a & c
- h) b & d
- 3. In the function $f(x) = \frac{ax+b}{cx+d}$, which coefficient(s) will change the y intercept?
- a) a only
- b) b only
- c) c only
- d) d only

- e) a & b
- f) c & d
- g) a & c
- h) b & d

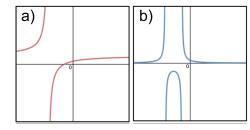
MHF4U - Rational Functions

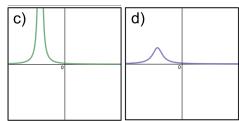
Name: _____

Date: _____

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- f) c & d
- g) a & c
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- 4. In the function $f(x) = \frac{ax+b}{cx+d}$, which coefficient(s) will change the vertical asymptote?
- a) a only
- b) b only
- c) c only
- d) d only

- e) a & b
- f) c & d
- g) a & c
- h) b & d

a) a only	b) b only	c) c only	
e) a & b	f) c & d	- •	
6. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the x inte	rcept?
, ,	, ,		d) (-0.25, 0)
7. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the y inte	rcept?
a) (0, 0.4)		c) (0, 1.7)	
8. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the vertic	al asymptote?
•	•	,	d) $x = -0.25$
9. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the vertic	al asymptote?
a) y = 0.4	b) $y = -2.7$	c) $y = 1.7$	d) $y = -0.25$
4. In the functio	on $f(x) = \frac{ax+b}{cx+d}$, whi	ch coefficient(s) will ch	ange the vertical asymptote?
a) a only	b) b only	c) c only	
	f) c & d	_	h) b & d
5. In the functio	n $f(x) = \frac{ax+b}{cx+d}$, whi	ch coefficient(s) will ch	ange the horizontal asymptote?
a) a only	b) b only	c) c only	
e) a & b	f) c & d	g) a & c	
6. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the x inte	rcept?
a) (0.4, 0)		c) (1.7, 0)	
7. For the funct	$ion f(x) = \frac{5x-2}{3x+8}, w$	hat would be the y inte	rcept?
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	b) $x = -2.7$	•	d) $x = -0.25$
a) x = 0.4	5x-2		al asymptote?
a) x = 0.4 9. For the funct	ion $f(x) = \frac{3x-2}{3x+8}$, w	nat would be the vertic	ai asymptote: