Answers to 5.2 Standard Form of Rational Functions

1) Vertical Asym.: $x = 2$
Holes: None
Horz. Asym.: $y = 1$

2) Vertical Asym.: $x = 0$
Holes: None
Horz. Asym.: $y = 0$

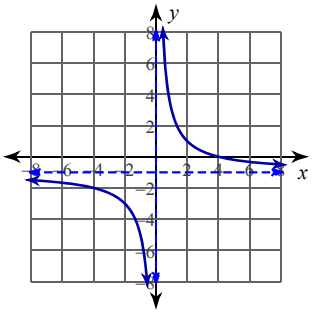
3) Vertical Asym.: $x = 1$
Holes: None
Horz. Asym.: $y = -2$

4) Vertical Asym.: $x = 2$
Holes: None
Horz. Asym.: $y = -2$

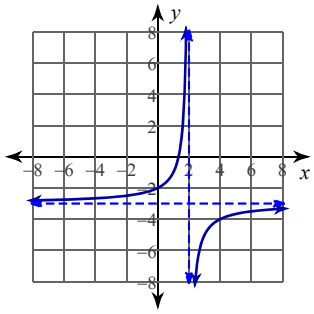
5) Vertical Asym.: $x = 0$
Holes: None
Horz. Asym.: $y = -2$

6) Vertical Asym.: $x = 0$
Holes: None
Horz. Asym.: $y = 1$

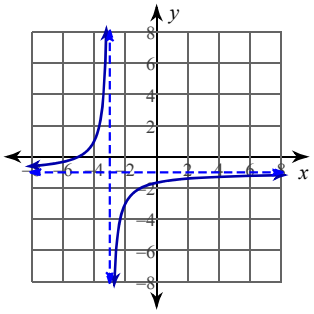
7)



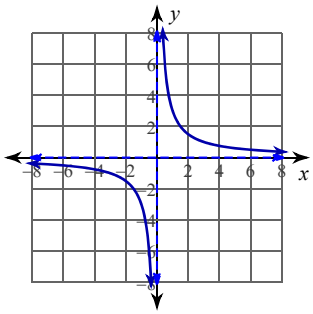
8)



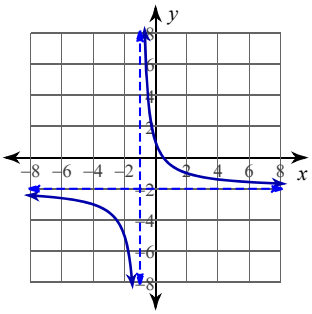
9)



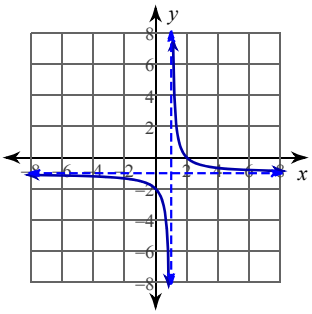
10)



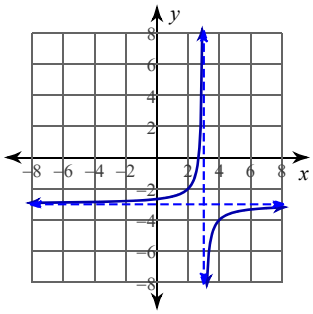
11)



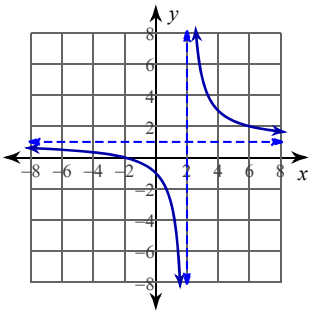
12)



13)



14)



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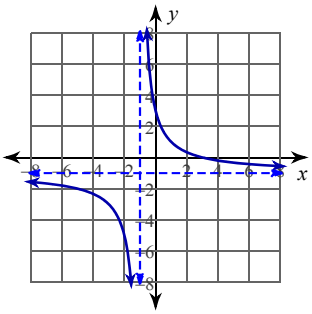

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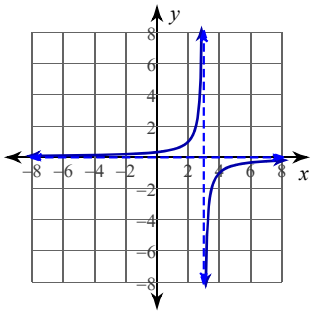

17) $y = \dfrac{3}{x-2} + 4$

18) $y = -\dfrac{2}{x+1}$

19) $y = \dfrac{1}{x} - 3$

20) $y = \dfrac{4}{x+5} - 2$

21) $y = -\dfrac{3}{x-1} - 4$

22) $y = \dfrac{2}{x-6} + 5$