$1. x \neq \frac{-1}{4}$	2. $x \neq -3,6$
3. $x \neq 2,8$	4. (−∞,∞)

In Problems 5-7, use the graph of the rational function in the figure shown to complete each statement

5. ∞	6. 0
7. –∞	8. 0
9.∞	10. −∞

In Problems 11-14, find the vertical asymptotes, if any, of the graph of each rational function

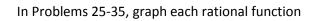
11. $x = 5$	12. $x = 0, x = 2$
13. $x = -5$	14. None

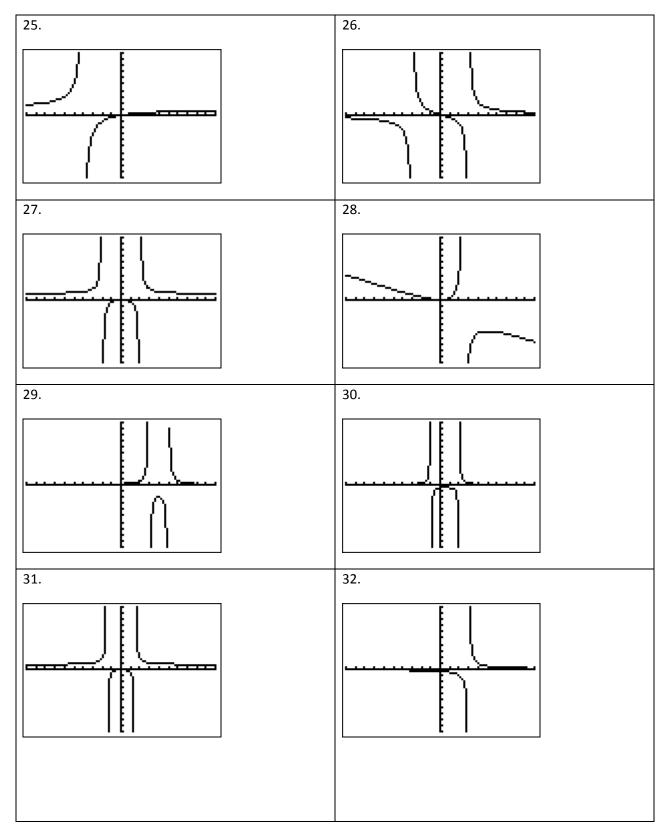
In Problems 15-18, find the horizontal asymptote, if any, of the graph of each rational function

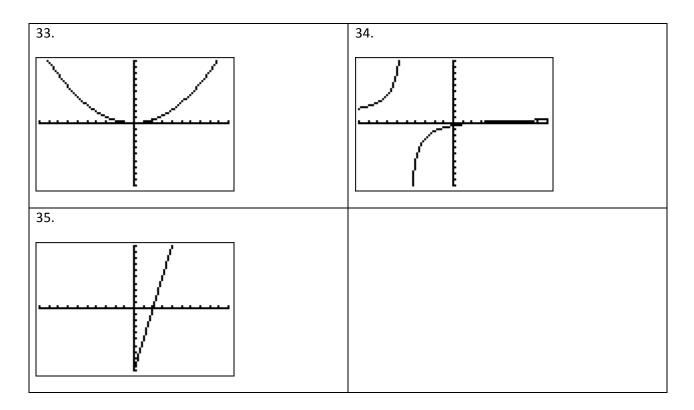
15. $y = 0$	16. $y = \frac{7}{2}$
17. None	18. $y = \frac{4}{3}$

In Problems 19-24, describe the transformation(s) from the basic graph of $f(x) = \frac{1}{x}$ or $f(x) = \frac{1}{x^2}$

19. Down 2	20. Down 4
21. Up 3, right 1	22. Down 2, right 5
23. Up 3, left 2	24. Up 2, left 1







In Problems 36-39, a) find the slant asymptote and b) graph each rational function

