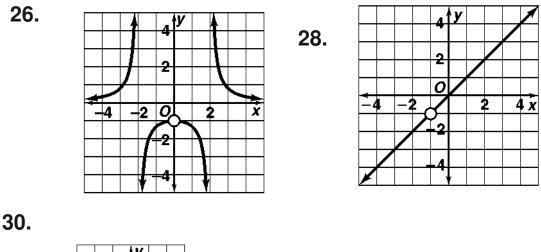
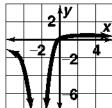
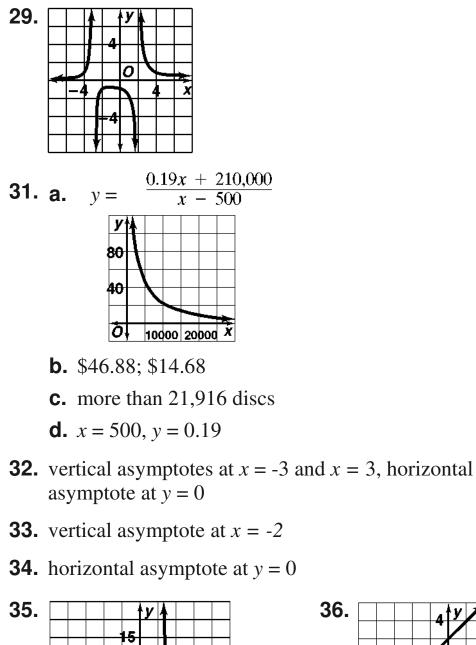
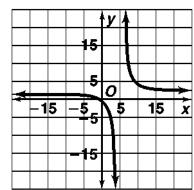
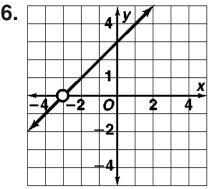
2. none 4.x = 2, x = 36. $x = -\frac{7}{2}, x = 1$ 8. none 10. vertical asymptote at x = -212. vertical asymptotes at $x = -\frac{3}{2}$ and x = 114. hole at x = -216. holes at $x = \pm 3$ 18. vertical asymptote at x = -5, hole at $x = -\frac{2}{3}$ 20. y = 022. $y = \frac{1}{2}$ 24. $y = \frac{3}{4}$



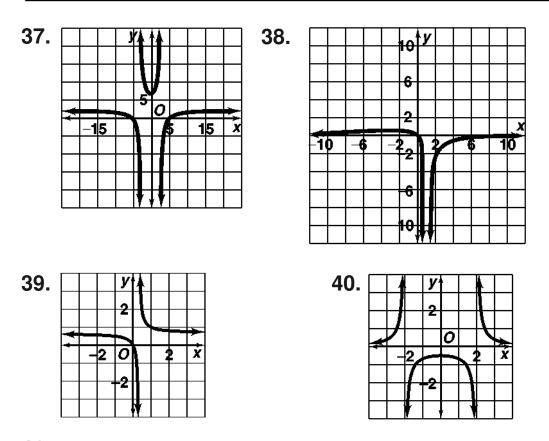






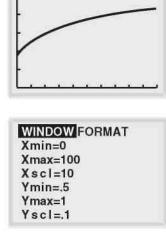


Answers for Lesson 9-3 Exercises (cont.)



41. Answers may vary. Sample: There is no value of x for which the denominator equals 0.

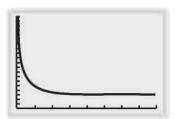
42. a.

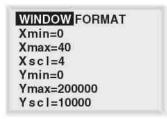


b. 6 free throws

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43. a.
$$y = \frac{20,000x + 200,000}{x + 1}$$





- **b.** \$65,000; \$25,806.45
- **c.** Answers may vary. Sample: No; the president's salary throws off the average; the median or mode would be a better measure.

44. a.
$$P(n) = 4n^2$$

b.
$$R(n) = 4n + 1$$

c. $y = \frac{4n^2}{4n + 1}; \frac{64}{17}$ check students' work.

- **45. a.** The increase in production workers' average hourly wage is greater.
 - **b.** rational
 - **c.** $R(x) = \frac{M(x)}{A(x)}$

