LESSON 11.8

NAME _____ DATE _____

Practice A

For use with pages 690–697

Solve the equation by cross multiplying.

1. $\frac{7}{10} = \frac{x}{20}$
2. $\frac{x}{3} = \frac{5}{2}$
3. $\frac{x}{10} = \frac{12}{5}$
4. $\frac{8}{x} = \frac{4}{7}$
5. $\frac{4}{3} = \frac{16}{x}$
6. $\frac{3}{x} = \frac{9}{2x + 4}$
7. $\frac{18}{x} = \frac{x}{2}$
8. $\frac{5}{x + 8} = \frac{1}{4}$
9. $\frac{5}{x + 2} = \frac{x}{3}$

Find the least common denominator.

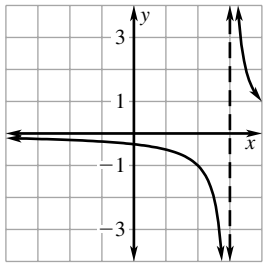
10. $\frac{2}{5}, \frac{4}{x}$
11. $\frac{x}{4}, \frac{1}{x}$
12. $\frac{3}{7}, \frac{8}{x}$
13. $\frac{5}{9}, \frac{6}{x}, \frac{8}{2x}$
14. $\frac{4}{5x}, 8$
15. $\frac{3}{4x}, \frac{7}{x}, 6$

Solve the equation by multiplying each side by the least common denominator.

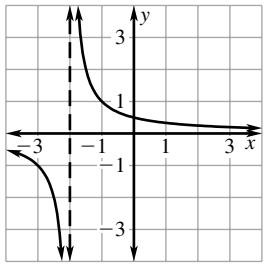
16. $\frac{1}{2} + \frac{2}{x} = \frac{1}{x}$
17. $\frac{1}{3} - \frac{2}{3x} = \frac{1}{x}$
18. $\frac{x}{3} - \frac{1}{x} = \frac{2}{3}$
19. $\frac{x}{4} - \frac{5}{x} = \frac{1}{4}$
20. $\frac{25}{x} = 10 - x$
21. $x + 4 = -\frac{4}{x}$

Match the function with its graph.

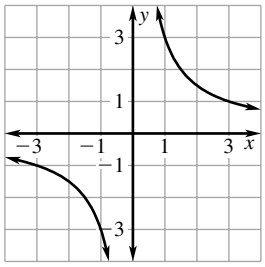
A.



B.



C.



22. $y = \frac{1}{x + 2}$
23. $y = \frac{3}{x}$
24. $y = \frac{1}{x - 3}$

25. ***Test Averages*** You have taken 3 tests and have an average of 70 points. If you score 90 points on the rest of your tests, how many more tests do you need to take to raise your average to 80?

26. ***Batting Averages*** You have had 28 hits in 112 times at bat. Your batting average is $\frac{28}{112} = 0.250$. How many consecutive hits must you get to increase your batting average to 0.300?

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