

**Practice B****Solving Rational Equations and Inequalities****Solve each equation.**

1. $x - \frac{6}{x} = 5$

2. $\frac{15}{4} = \frac{6}{x} + 3$

3. $x = \frac{3}{x} + 2$

4. $\frac{4}{x^2 - 4} = \frac{1}{x - 2}$

Solve each inequality by using a graphing calculator and a table.

5. $\frac{6}{x + 1} < -3$

6. $\frac{x}{x - 2} \geq 0$

7. $\frac{2x}{x + 5} \leq 0$

8. $\frac{-x}{x - 3} \geq 0$

Solve each inequality algebraically.

9. $\frac{12}{x + 4} \leq 4$

10. $\frac{7}{x + 3} < -5$

11. $\frac{x}{x - 2} > 9$

12. $\frac{2x}{x - 5} \geq 3$

Solve.

13. The time required to deliver and install a computer at a customer's location is $t = 4 + \frac{d}{r}$, where t is time in hours, d is the distance, in miles, from the warehouse to the customer's location, and r is the average speed of the delivery truck. If it takes 6.2 hours for the employee to deliver and install a computer for a customer located 100 miles from the warehouse, what is the average speed of the delivery truck?
