REVIEW

DIRECT VARIATION

1. Without graphing, tell which of the following lines pass through the origin. Explain. The line containing points
   a. (2, 6) and (4, 12);
   b. (3, 8) and (4, 9);
   c. (6, 5) and (18, 15).

2. A line contains the points (0, 1) and (2, 4). Does it also contain the point (4, 8)? Explain.

3. A line contains the points (2, 5) and (4, 10). Does it also contain the point (200, 500)? Explain.

CREATE AN EQUATION

4. Create an equation that has $x = 3$ as a solution.

5. Create an equation that has $y = -3$ as a solution.

6. Create an equation where x appears on both sides of the equation and
   a. the solution is $x = 0$;
   b. the solution is $x = -1/2$.