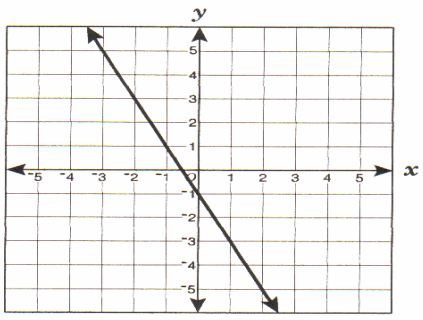
SOL Mini-Challenge **Equations and Inequalities**
A.8

Read and solve each question.

1.



Which best represents the equation of the line shown?

F. y = 2x +1
G. y = 2x – 1
H. y = -2x + 1
J. y = -2x – 1

2. Which is an equation of a line that has a slope of $-\frac{1}{2}$ and contains the point (2, 3)?

A. $y = 2x - \frac{1}{2}$
B. $y = -\frac{x}{2} + 4$
C. $y = \frac{x}{2} + 3$
D. y = 3x + 2

3. Which is an equation for the line that contains the points (-3, 5) and (1, -3)?

A. y = -x +2
B. y = -2x – 1
C. $y = -\frac{1}{2}\ x\ -\frac{3}{2}$
D. $y = \frac{3}{2}\ x - \frac{9}{2}$

4. Which is an equation for the line containing points (0, 0) and (6, -4)?
   A. $y = 0$
   B. $x = 0$
   C. $y = \frac{2}{3}x$
   D. $y = -\frac{2}{3}x$

5. Which is an equation for the line with an undefined slope and containing the point (4,2)?
   F. $x = 4$
   G. $y = 2$
   H. $y = 4x$
   J. $y = \frac{1}{2}x$

6. Which is an equation for the line containing the points (8, 6) and (3, 6)?
   F. $x = 6$
   G. $y = 6$
   H. $y = -\frac{2}{3}x + 8$
   J. $x = 3$