

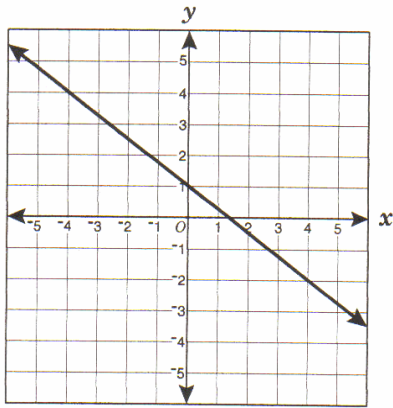
SOL Mini-Challenge

Equations and Inequalities A.6

Read and solve each question.

1.

The graph of $y = -\frac{3}{4}x + 1$ is shown.

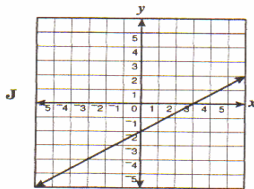
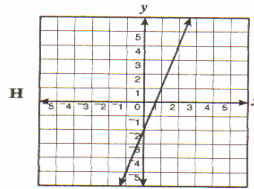
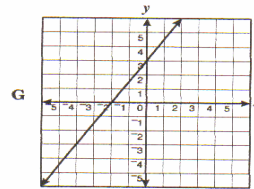
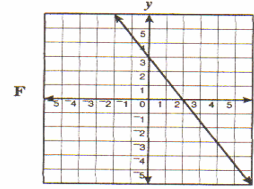


If the line in the graph is shifted up 2 units, which is the equation of the new line?

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

2.

Which is the graph of a line that appears to have a slope of 3 and y-intercept -2?



3. What are the x and y intercepts for the line $2x + 4y = -8$?

- F. (2, 0) and (0, 4)
- G. (-4, 0) and (0, -2)
- H. (4, 0) and (0, 2)
- J. (-4, -2) and (4, 2)

4. Which of the following equations has an x-intercept of 8 ?

A. $4x + 3y = 24$

B. $8x - 2y = 18$

C. $3x + 4y = 24$

D. $2x + 6y = 18$