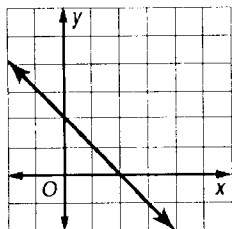


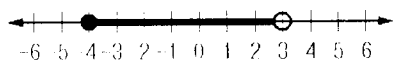
**Alg1a AHSGE Practice (7 topics - ID 514)****Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

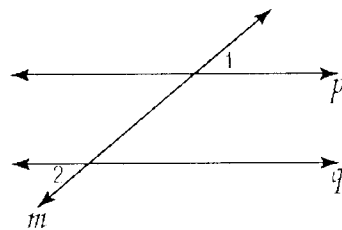
1. What is the equation of the line shown in the graph?



- a.  $y = x - 2$    b.  $y = -x - 2$    c.  $y = -x + 2$    d.  $y = x + 2$
2. What is the equation of the line passing through the points (2, 5) and (4, 6)?
- a.  $y = 2x + 1$    b.  $y = \frac{1}{2}x + 4$    c.  $y = -\frac{1}{2}x + 6$    d.  $y = -2x + 9$
3. Which of these inequalities describes this graph?



- a.  $-4 < x < 3$    b.  $-4 \leq x < 3$    c.  $-4 < x \leq 3$    d.  $-4 \leq x \leq 3$
4. What is the equation of a line with slope  $\frac{3}{4}$  that passes through the point  $(-4, -5)$ ?
- a.  $y = \frac{3}{4}x - \frac{31}{4}$    b.  $y = \frac{3}{4}x - \frac{1}{4}$    c.  $y = \frac{3}{4}x - 8$    d.  $y = \frac{3}{4}x - 2$
5. What is the equation of a line with slope  $-2$  that passes through the point  $(0, -4)$ ?
- a.  $y = -2x - 4$    b.  $y = -2x - 2$    c.  $y = -2x + 8$    d.  $y = -2x$
6. Given:  $p \parallel q$ ,  $m\angle 1 = 40^\circ$ . What is  $m\angle 2$ ?



- a.  $30^\circ$    b.  $40^\circ$    c.  $50^\circ$    d.  $140^\circ$
7. A circular sundial has a circumference of  $32\pi$  inches. What is the area of the sundial?
- a.  $256\pi$  square inches   b.  $1024\pi$  square inches   c.  $256$  square inches   d.  $1024$  square inches

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**Answer Section**

**MULTIPLE CHOICE**

1. C
2. B
3. B
4. D
5. A
6. B
7. A