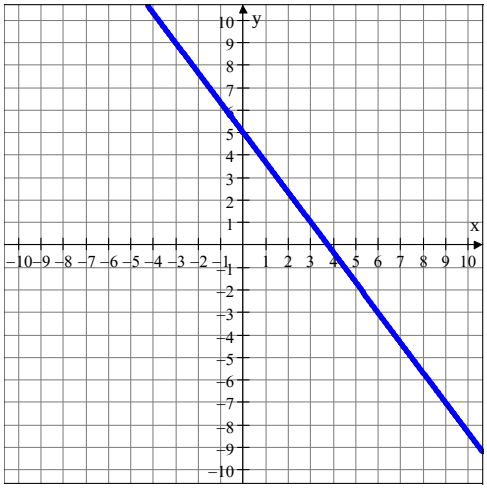
Algebra 1 Module 1 Lesson Nine Test
Correct Answers

1) Which equation best describes the graph shown below?



A $y = -\frac{3}{4}x + 5$

Incorrect, your slope is slightly off.
The point (3, 1) is not on this graph.

B $y = -\frac{4}{3}x + 5$ **Correct!**

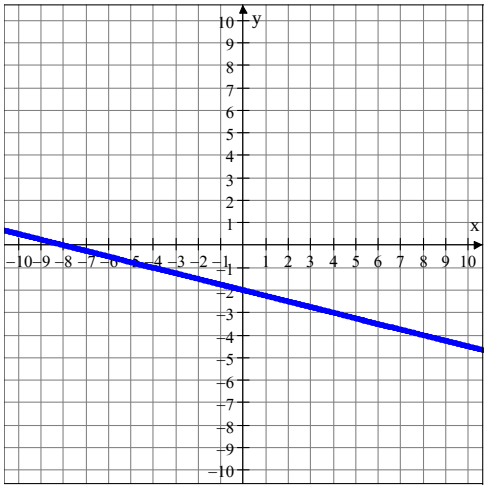
C $y = \frac{3}{4}x + 5$

Incorrect, this equation has a positive slope.

D $y = \frac{4}{3}x + 5$

Incorrect, this equation has a positive slope.

2) Which of the following equations best describes the graph shown below?



A $y = \frac{1}{4}x - 8$

Incorrect, this equation has a positive slope.

B $y = \frac{1}{4}x - 2$

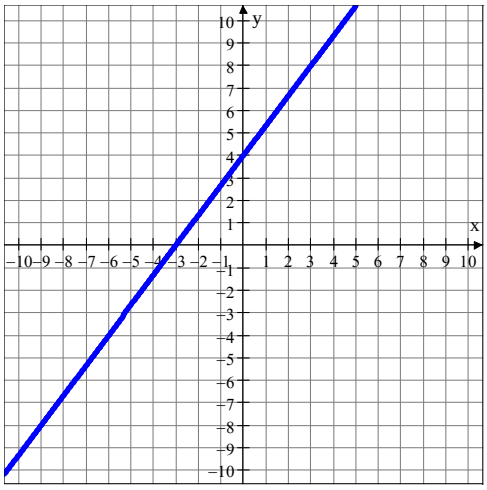
Incorrect, this equation has a positive slope.

C $y = -\frac{1}{4}x - 8$

Incorrect, the *y*-intercept is incorrect.

D $y = -\frac{1}{4}x - 2$ **Correct!**

3) Which of the following equations best describes the graph shown below?



A $3x - 4y = -12$

B $4x + 3y = -12$

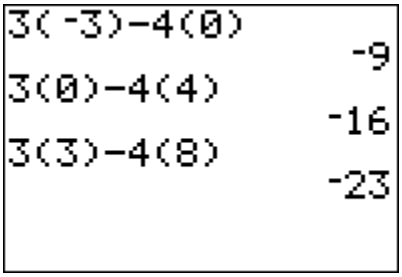
C $4x + 3y = 4$

D $4x - 3y = -12$

A $3x - 4y = -12$

Incorrect, solve for y, $y = \frac{3}{4}x + 3$

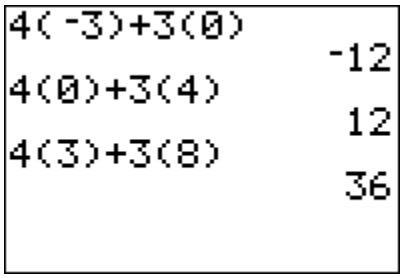
wrong y-intercept.
(−3, 0) (0, 4), and (3, 8) are not on $3x - 4y = -12$.



C $4x + 3y = 4$

Incorrect, solve for y, $y = -\frac{4}{3}x + \frac{4}{3}$

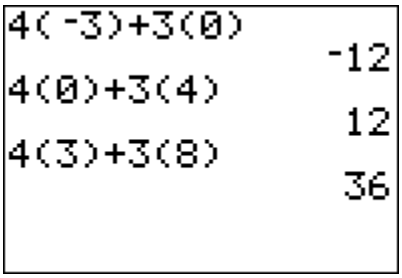
wrong y-intercept.
(−3, 0) (0, 4), and (3, 8) are not on $4x + 3y = 4$.



B $4x + 3y = -12$

Incorrect, solve for y, $y = -\frac{4}{3}x - 4$:

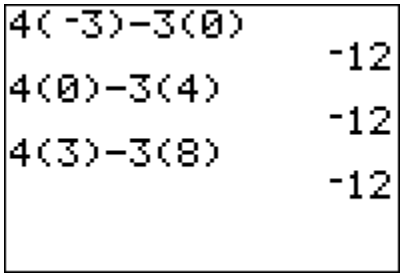
wrong y-intercept. (−3, 0) (0, 4).
and (3, 8) are not on $4x + 3y = -12$



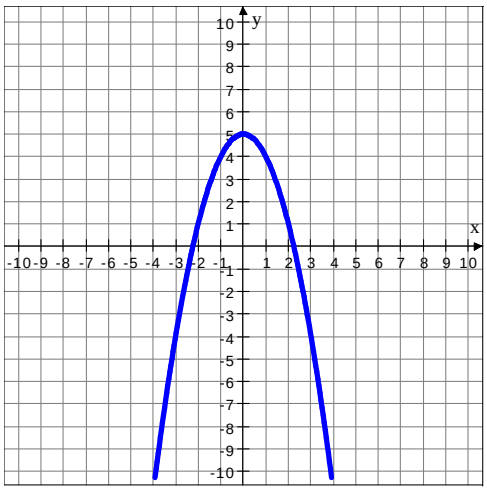
D $4x - 3y = -12$

Correct! Solve for y, $y = \frac{4}{3}x + 4$.

(−3, 0) (0, 4), and (3, 8) are on $4x - 3y = -12$.



4) Which quadratic equation best represents the parabola shown below?



A $y = x^2 + x + 5$

Incorrect, this parabola would open up.

B $y = x^2 + 5$

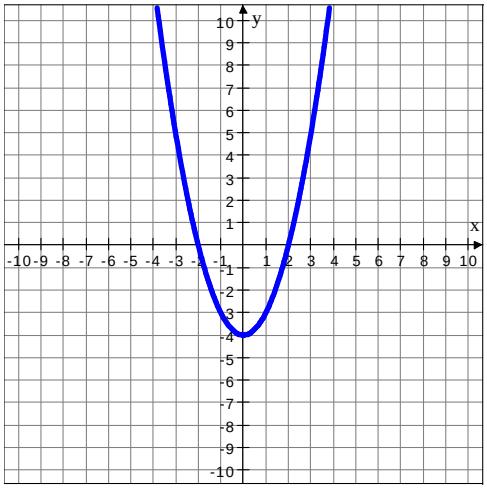
Incorrect, this parabola would open up.

C $y = -x^2 + 5$ **Correct!**

D $y = -x^2 + x + 5$

Incorrect, the graph would NOT contain the points (0, 5), (1, 4), and (3, -4).

5) Which quadratic equation best represents the parabola shown below?



A $y = x^2 - 4$ **Correct!** Did you check points?

B $y = -4x^2$

Incorrect, this parabola would open down.

C $y = x^2 + x - 6$

Incorrect, this graph would NOT contain $(-2, 0)$.

D $y = x^2 + x - 4$

Incorrect, the graph would NOT contain (2, 0).