Day 10 Quiz Algebra 2 A - Quadratic Equations and Inequal	ities
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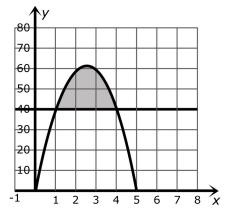
Some questions (c) 2017 by Region 10 Educational Service Center.

Some questions (c) 2017 by Progress Testing.

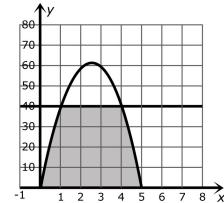
- Which ordered pair is not a solution to the inequality  $y \ge 2x^2 4x + 2$ ?
  - **A** (1, 0)
  - **B** (0, 3)
  - C (2, 5)
  - **D** (-1, 6)

The height in meters of a rocket launched from the ground after t seconds is modeled by  $h(t) = -9.8r^2 + 49t$ . Which graph represents the interval of time when the rocket will be higher than 40 meters?

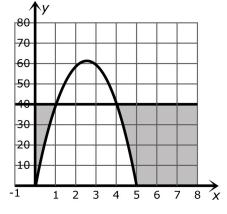
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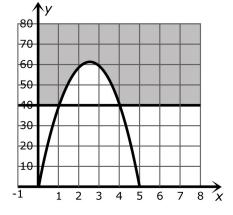
 $\mathbf{G}$ 



Η



J



3 Some selected solutions of  $y = -3x^2 + 7x$  are given in the table below.

x	$y = -3x^2 + 7x$	х	$y = -3x^2 + 7x$
-5	-110	0	0
-4	-76	1	4
-3	-48	2	2
-2	-26	3	-6
-1	-10	4	-20

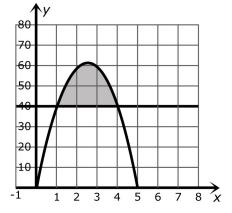
What is the solution set of the inequality  $-3x^2 + 7x \le 0$ ?

- $\mathbf{A} \quad 0 \le x \le 2$
- **B**  $x \le 0, x \ge 3$
- **C**  $x \le -1, x \ge 3$
- **D**  $x \le 0, x \ge \frac{7}{3}$
- 4 What is the solution set of the inequality  $x^2 4x 5 < 0$ ?
  - **F**  $\{x \mid x > 1 \text{ or } x < -5\}$
  - **G**  $\{x \mid -5 < x < 1\}$
  - **H**  $\{x \mid x > 5 \text{ or } x < -1\}$
  - **J**  $\{x \mid -1 < x < 5\}$
- 5 What is the solution set of the inequality  $x^2 + 2x 15 < 0$ ?
  - **A** x < -5 or x > 3
  - **B** -3 < x < 5
  - C -5 < x < 3
  - **D** x < -3 or x > 5

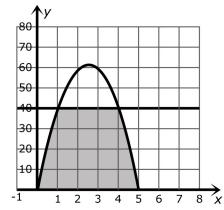
- **6** What is the solution set of the inequality  $x^2 x > 20$ ?
  - **F**  $\{x \mid x > 5 \text{ or } x < -4\}$
  - **G**  $\{x | x > 0\}$
  - **H**  $\{x \mid -4 < x < 5\}$
  - **J**  $\{x | x > 5\}$
- 7 What is the solution set of the inequality  $x^2 3x 10 > 0$ ?
  - **A**  $\{x \mid x < -2 \text{ or } x > 5\}$
  - **B**  $\{x \mid -5 < x < 2\}$
  - C  $\{x \mid -2 < x < 5\}$
  - **D**  $\{x \mid x < -5 \text{ or } x > 2\}$

8 The height in meters of a rocket launched from the ground after t seconds is modeled by  $h(t) = -9.8r^2 + 49t$ . Which graph represents the interval of time when the rocket will be higher than 40 meters?

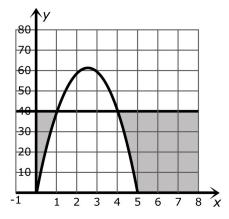
F



 $\mathbf{G}$ 



 $\mathbf{H}$ 



J

