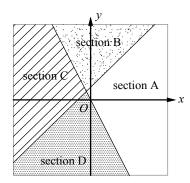
Chapter 4

Exercises - Graphing Systems of Inequalities

1

$$\begin{cases} y - x \ge 1 \\ y \le -2x \end{cases}$$



A system of inequalities and a graph are shown above. Which section or sections of the graph could represent all of the solutions to the system?

- A) Section A
- B) Section B
- C) Section C
- D) Section D

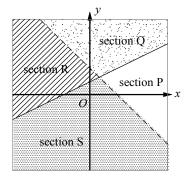
2

Which of the following ordered pairs (x, y) is a solution to the system of inequalities y > x - 4 and x + y < 5?

- A) (4,-2)
- B) (0,2)
- C) (5,3)
- D) (0,-5)

3

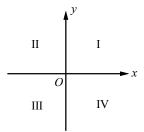
$$\begin{cases} x - 2y \le -2 \\ y < -x + 2 \end{cases}$$



A system of inequalities and a graph are shown above. Which section or sections of the graph could represent all of the solutions to the system?

- A) Section P
- B) Section Q
- C) Section R
- D) Section S

4



If the system of inequalities 2-y < 2x and $-x \le 4-y$ is graphed on the xy- plane above, which quadrant contains no solutions to the system?

- A) Quadrant II
- B) Quadrant III
- C) Quadrant IV
- D) There are solutions in all four quadrants.