## Exercises - Graphing Systems of Inequalities

1

$$
\left\{\begin{array}{l}
y-x \geq 1 \\
y \leq-2 x
\end{array}\right.
$$



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

$$
\left\{\begin{array}{l}
x-2 y \leq-2 \\
y<-x+2
\end{array}\right.
$$



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


If the system of inequalities $2-y<2 x$ and $-x \leq 4-y$ is graphed on the $x y$-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.

