# 6-6 Practice
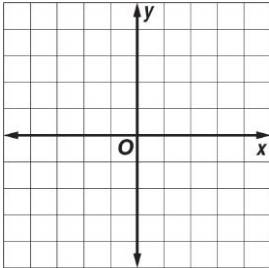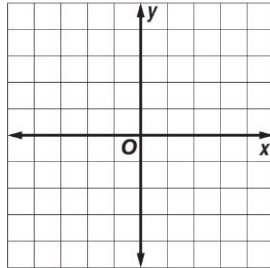## *Systems of Inequalities*

**Solve each system of inequalities by graphing.**
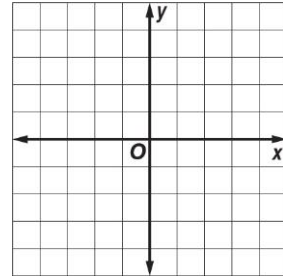
**1.** $y > x - 2$
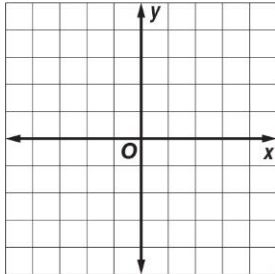    $y \leq x$

**2.** $y \geq x + 2$
    $y > 2x + 3$

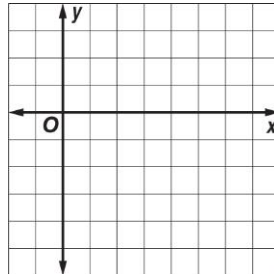**3.** $x + y \geq 1$
    $x + 2y > 1$
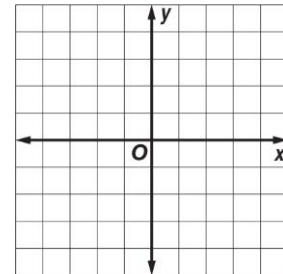
**4.** $y < 2x - 1$
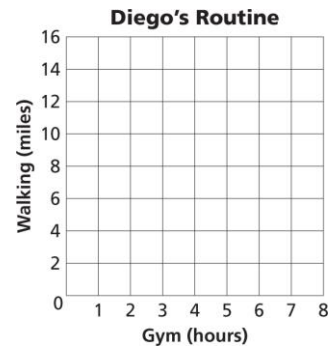    $y > 2 - x$

**5.** $y > x - 4$
    $2x + y \leq 2$

**6.** $2x - y \geq 2$
    $x - 2y \geq 2$

**7. FITNESS** Diego started an exercise program in which each week he works out at the gym from 4.5 to 6 hours and walks from 9 to 12 miles.

**a.** Make a graph to show the number of hours Diego works out at the gym and the number of miles he walks per week.

**b.** List three possible combinations of working out and walking that meet Diego's goals.

**Diego's Routine**

Walking (miles) — Gym (hours)

**8. SOUVENIRS** Emily wants to buy turquoise stones on her trip to New Mexico to give to at least 4 of her friends. The gift shop sells stones for either $4 or $6 per stone. Emily has no more than $30 to spend.

**a.** Make a graph showing the numbers of each price of stone Emily can purchase.

**b.** List three possible solutions.

**Turquoise Stones**

$6 Stones — $4 Stones