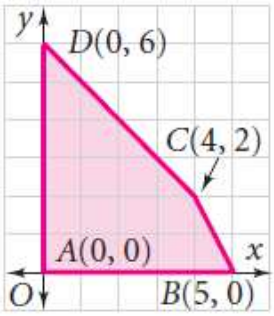
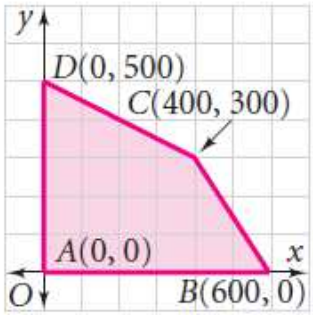
Homework

**1.**



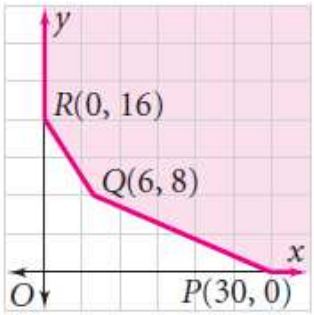

Maximum for
$P = 3x + 2y$

**2.**




Maximum for
$P = 7x + 4y$

**3.**

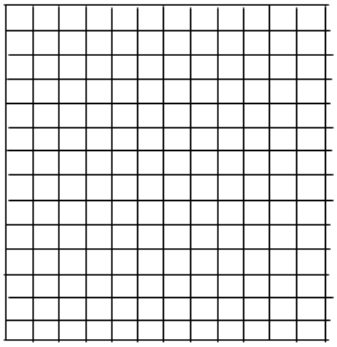



Minimum for
$C = 2x + 3y$

**Graph each system of constraints. Name all vertices. Then find the values of $x$ and $y$ that maximize or minimize the objective function.**

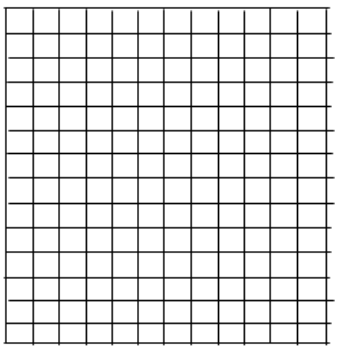
**4.** $\begin{cases} x \le 5 \\ y \le 4 \\ x \ge 0, y \ge 0 \end{cases}$

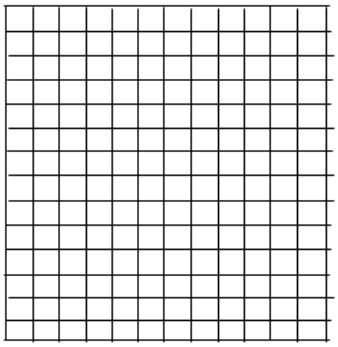
Maximum for
$P = 3x + 2y$



**5.** $\begin{cases} x + y \ge 8 \\ y \ge 5 \\ x \ge 0 \end{cases}$

Minimum for
$P = 3x + 2y$



**6.** $\begin{cases} x + y \le 8 \\ 2x + y \le 10 \\ x \ge 0, y \ge 0 \end{cases}$

Maximum for
$N = 100x + 40y$