Graph these systems of inequalities to find the regions they define. Then, locate the corner points, which are called vertices. View <u>MATHquide's online lesson</u> for assistance.

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1)	(<i>x</i> ≥	0
-	}	$y \ge$	0
	(2x)	+5y	≤ 100

2)
$$\begin{cases} x \ge 0 \\ y \ge 0 \\ x \le 30 \\ y \le 70 \end{cases}$$

$$\begin{cases} x \ge 10 \\ y \ge 20 \\ x + y \le 70 \end{cases}$$

4)
$$\begin{cases} x \ge 10 \\ y \ge 30 \\ 3x + 2y \le 120 \end{cases}$$

5)
$$\begin{cases} x \ge 10 \\ y \ge 5 \\ 45x + 30y \le 900 \end{cases}$$

6)
$$\begin{cases} x \ge 5 \\ y \ge 10 \\ x + y \ge 20 \\ x + y \le 50 \end{cases}$$