

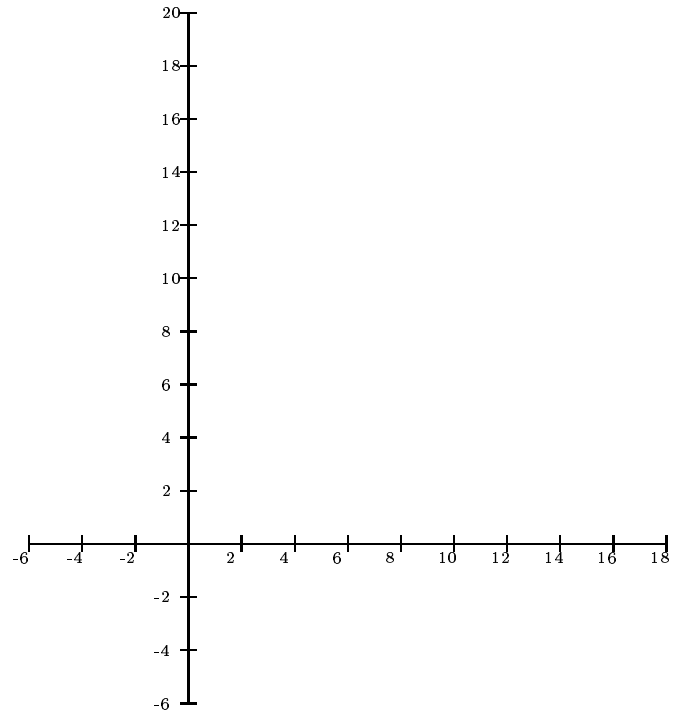
QUIZ 9

Name _____

1. Minimize $P = 12x + 14y$

Subject to

$$\left\{ \begin{array}{l} -2x + y \leq 6 \\ x + y \leq 15 \\ 2x - 3y \geq 15 \\ x, y \geq 0 \end{array} \right\}$$



2. A five card poker hand is dealt what is the probability that the hand will have 2 kings and 3 jacks?
3. An automobile manufacturer produces 37% of its cars at plant A. If 5% of the cars manufactured at plant A have defective emission control devices, what is the probability that one of this manufacturer's cars was manufactured at plant A and has a defective emission control device?

4. Roll a pair of fair six sided dice and record the sum of the numbers uppermost. What is the probability that the sum is at most 4?

5. An experiment consists of flipping a fair coin 5 times. What is the probability that at least one head turns up?