

HOMEWORK**Solve each system of equations by substitution. Clearly identify your solution.**

1.
$$\begin{cases} y = 3x + 19 \\ y = 5x + 33 \end{cases}$$

2.
$$\begin{cases} y = -2x + 2 \\ y = 7x + 11 \end{cases}$$

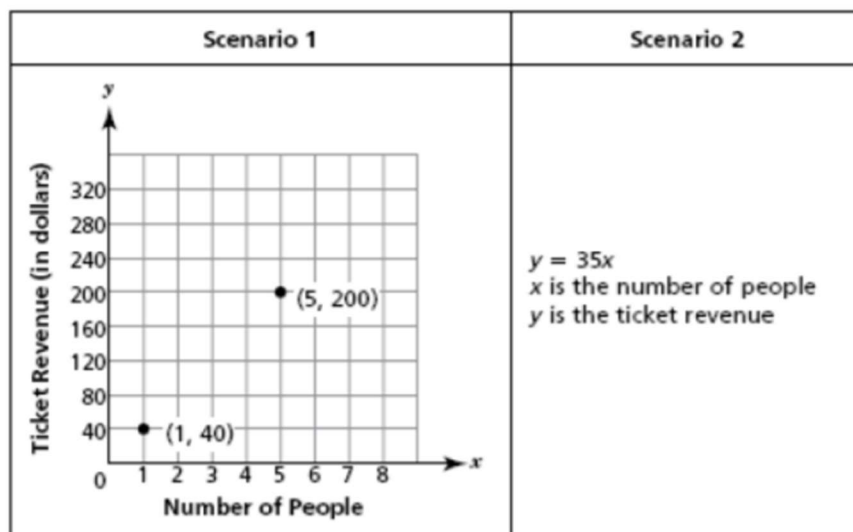
3.
$$\begin{cases} y = x + 8 \\ x + y = 2 \end{cases}$$

4.
$$\begin{cases} y = 2x \\ 5x - y = 9 \end{cases}$$

5.
$$\begin{cases} y = x + 2 \\ 3x + 3y = 6 \end{cases}$$

6.
$$\begin{cases} x = 3y \\ 2x + 4y = 10 \end{cases}$$

Consider the two scenarios below.



Part A

What is the unit rate of ticket revenue per person for scenario 1? Fill in the blank to complete the statement.

Answer The unit rate for scenario 1 is \$ _____ per person.

Part B

What is the unit rate of ticket revenue per person for scenario 2? Fill in the blank to complete the statement.

Answer The unit rate for scenario 2 is \$ _____ per person.

Part C

In which scenario does the ticket revenue increase faster, and by how much? Fill in the blanks to complete the statement.

Answer The ticket revenue increases faster in scenario _____ by \$ _____ per person.