Open Ended:

1. Write an equation for the following situation and solve it:

electrician A charges a fee of $5 and $200 per hour. electrician B charges a fee of $55 and $100 per hour. After how many hours will the costs be the same? What will the cost be?

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2. Cab ride cost a onetime fee of $2.5 and 5 per mile ,
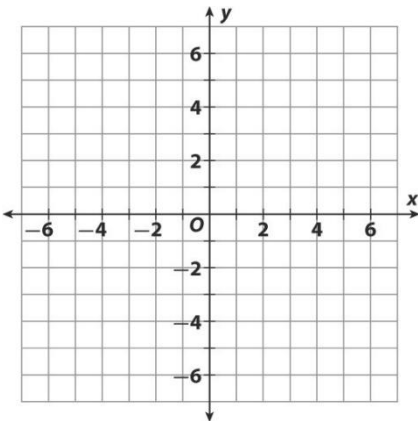
a) Write the linear function

b) Graph the linear function

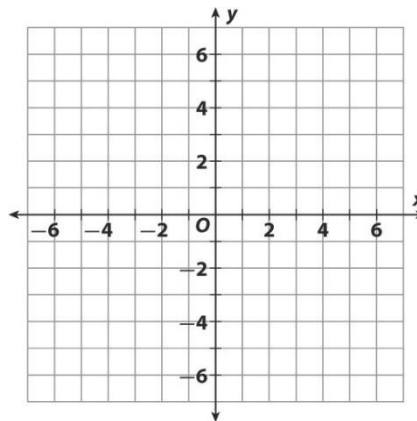c) Estimate how much the the cab will cost if the cab ride is 5 miles.

Cost ($) vs Miles

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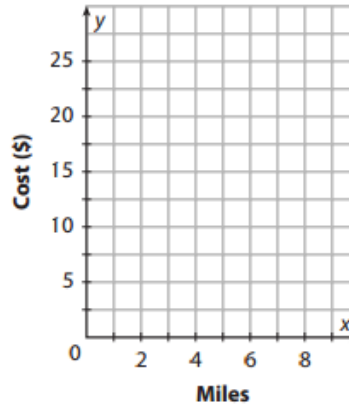
3. Solve the system by graphing.
$$\begin{cases} x + 2y \le 6 \\ y \le \frac{1}{2}x - 3 \end{cases}$$

4. Solve the system by graphing.
$$\begin{cases} x + 2y = 6 \\ y = \frac{1}{2}x - 3 \end{cases}$$

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5. Solve by addition or subtraction.

$$\begin{cases} -3x + 2y = 17 \\ x + 2y = 5 \end{cases}$$

6. Solve the system by multiplying first, then using addition or subtraction.

$$\begin{cases} x + 2y = -1 \\ 3x - 4y = 17 \end{cases}$$