**1)** Mike and Tim each opened bank accounts on the same day.
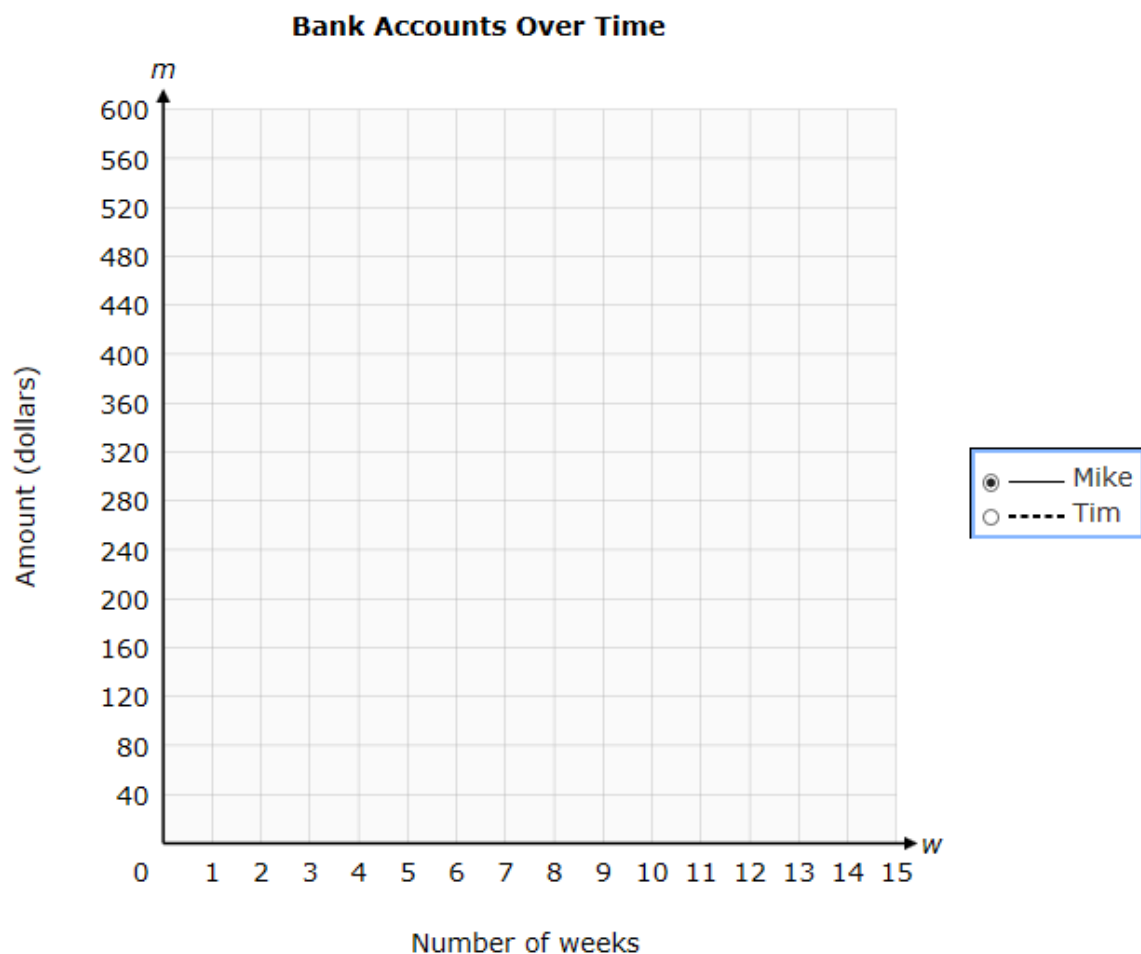
- Mike opened a bank account with $80.

- Mike deposits $20 each week.

- Tim opened a bank account with $500.

- Tim withdraws $50 each week.

**Part A**

Create a graph of Mike's and Tim's bank accounts over time. On the coordinate grid, create two lines, one representing Mike's bank account over time, and the other representing Tim's bank account over time.

**Bank Accounts Over Time**

*m*

Amount (dollars)

600
560
520
480
440
400
360
320
280
240
200
160
120
80
40

0   1   2   3   4   5   6   7   8   9   10  11  12  13  14  15   *w*

Number of weeks

○ —— Mike
○ ----- Tim

**Part B**

After about how many weeks will Mike and Tim have the same amount of money in their bank accounts?

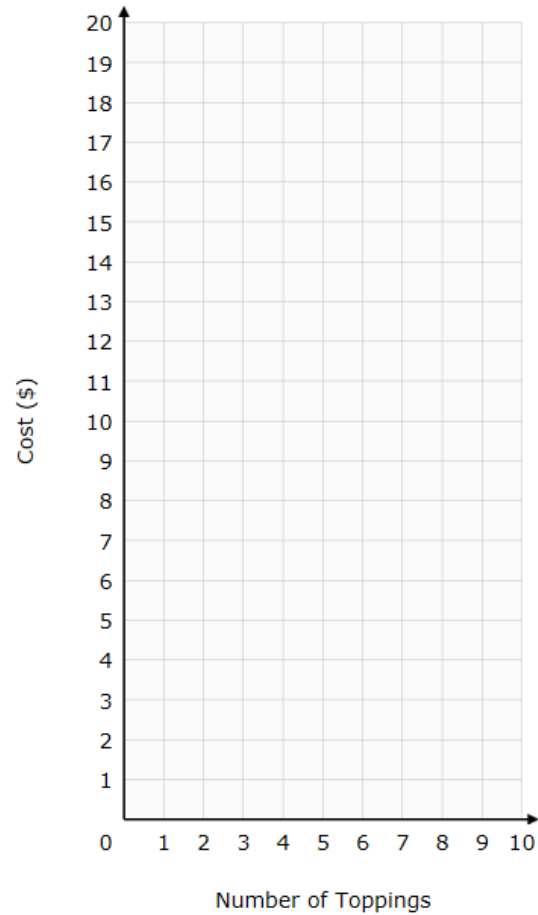**2)** The cost of a medium pizza at two different pizza shops is shown.

### Pizza Oven

$C = 10 + t$
$C$ = total cost
$t$ = number of additional toppings

### Pizza Stop

| Additional Toppings | Cost ($) |
|---|---|
| 1 | 12.50 |
| 2 | 13.00 |
| 3 | 13.50 |

### Part A

Use the grid to create **two** lines. One line should represent the cost of a pizza from Pizza Oven and the other line should represent the cost of a pizza from Pizza Stop.

**Pizza Cost per Number of Toppings**



Cost ($)

Number of Toppings

### Part B

At what coordinates are the pizza prices the same from both companies? Enter the coordinates of the intersection.

The x-coordinate is:

The y-coordinate is:

**3)** A system of equations is shown.

$$\begin{cases} 2x - 3y = 16 \\ y = 5x - 14 \end{cases}$$

Solve the system and show your answer as an ordered pair by dragging the x-coordinate and y-coordinate of the solution to complete the ordered pair.

| |
|---|
| − 4 |
| − 3 |
| − 2 |
| − 1 |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |