

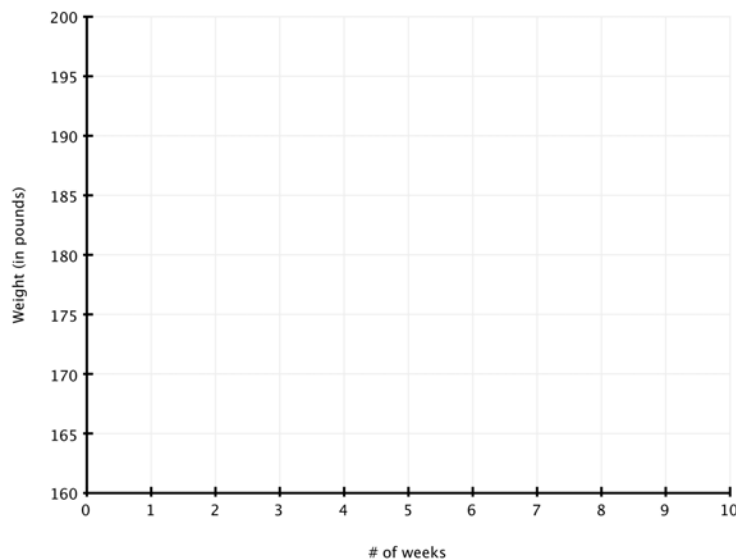


- Tom and Scott are beginning a training program for the upcoming football season. Tom weighs 165 pounds and plans to gain 2 pounds per week through this training program. Scott weighs 195 pounds and plans to lose 3 pounds per week. If their plans work, in how many weeks will they weigh the same amount? What will their weight be at that time?

**Table**

Weeks	Tom's Weight	Scott's Weight

**Graph**



**Equation** Check by substituting the value of your solution into an equation representing where the weights are the same.

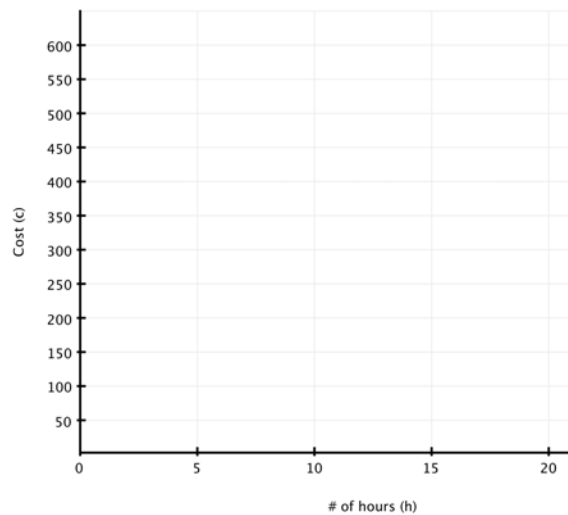


2. Sherri wishes to have her house painted. She contacts two companies to get quotes on what they would charge for painting her house. The A-1 Painting Company would charge Sherri \$420 initially plus \$9 per hour. Houses-R-Us would have an initial charge of \$300 plus \$14 per hour. After how many hours does A-1 Painting Company become a better value than Houses-R-Us?

Table

# of Hours	Cost for A-1	Cost for Houses-R-Us

Graph



**Inequality** Check by substituting the value of your solution into an inequality representing the situation.

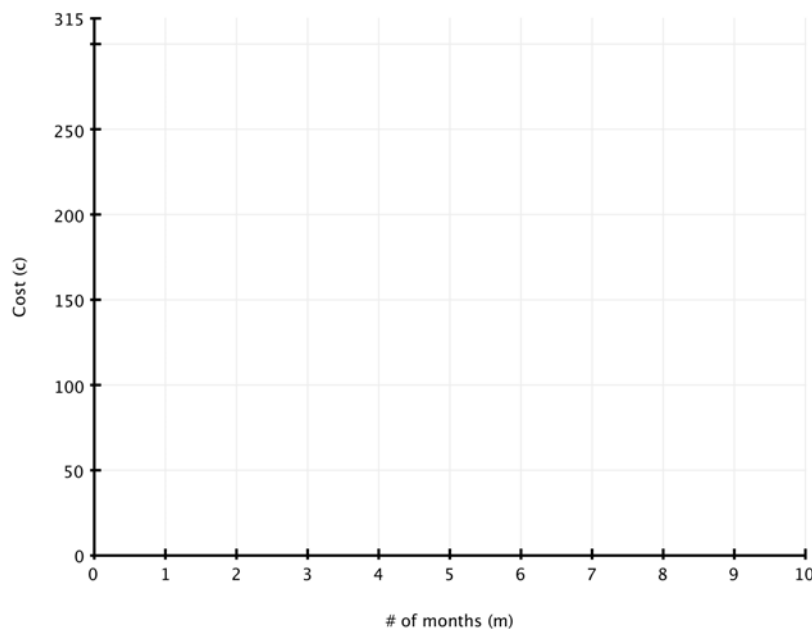


3. Jennifer would like to get broadband Internet service for her house. She is considering either the local phone company or the cable TV provider. Jennifer finds that the phone company would have no activation fee but their charge for service is \$35 per month. The cable TV company has a \$120 activation fee with a \$20 per month charge for service. After how many months of service would the cable TV company become the better value?

**Table**

# of months	phone co.	cable TV

**Graph**



**Inequality** Check by substituting the value of your solution into an inequality representing the situation.