8 Review Day 10

Larry and Esther have been saving money for vacation. Larry started with $120 in his savings account and added $40 to it each week. Esther began with less money than Larry had, but she adds more money to her account each week than he does. Write an equation that could represent Esther's money has after x weeks.
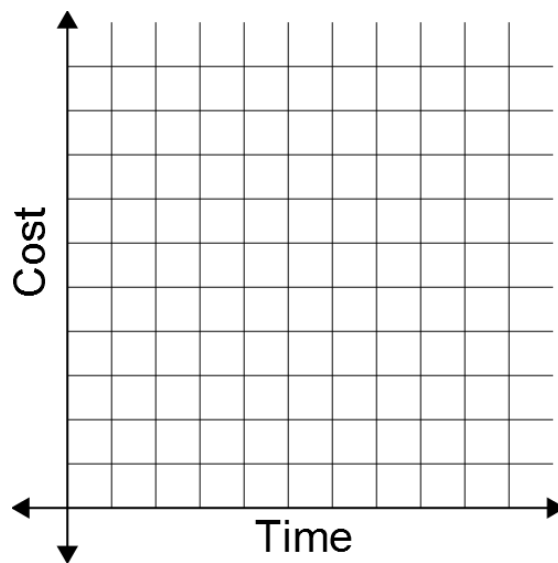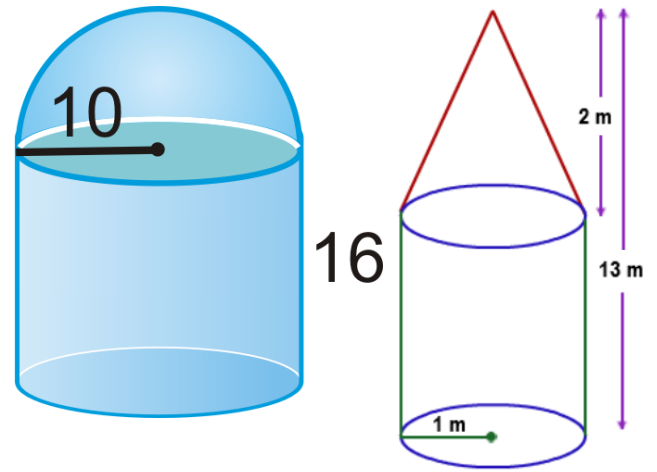
Solve each system of equations.

$y = 2x - 15$

$y = x - 3$
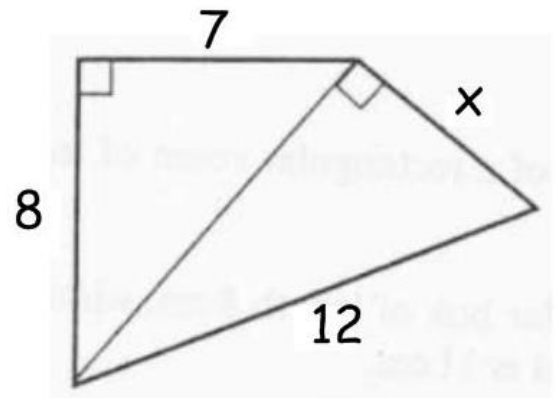
$x = -4$

$3x + 8y = 4$

The price of Carlson's Cheesecake remains constant over time. At first, Streitman's Strudel costs more than Carlson's Cheesecake, but over time, its cost decreases steadily. The two desserts both cost $7.00 after 6 years. Graph a linear function for each tasty treat. Then, write an equation for each of your functions.

Which of the two compound solids has a greater volume?

10

16

2 m

13 m

1 m

Determine the value of x in the diagram.

7

8

12

x

The points $(-4, -3)$, $(20, 15)$, and $(48, 36)$ all lie on the same line. Select **all** of the following points that also lie on this line.

☐ $(-8, -6)$

☐ $(-2, -1)$

☐ $(0, 0)$

☐ $(4, 3)$

☐ $(6, 8)$

Place the following numbers in order from greatest to least.

$\sqrt{77}$ $\qquad$ $\dfrac{43}{5}$ $\qquad$ 3π $\qquad$ 8.81335 $\qquad$ $8.\overline{81335}$ $\qquad$ 2.1^3 $\qquad$ -100