

### Lesson 5.1.3

**5-34. See below:**

- a. Answers vary but should be close to 0.83.
- b. Approximately 228 cm. Since DeShawna measured to the nearest centimeter, a prediction rounded to the nearest centimeter would be reasonable.
- c. Approximately 72 cm.
- d. Approximately 166 meters.
- e. Approximately 138 meters, approximately 114 meters.

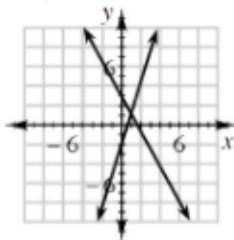
**5-35. See below:**

- a.  $10(0.555) = 5.55$  feet
- b.  $10(0.555)(0.555) = 3.08$  feet
- c.  $10(0.555)^5 = 0.527$  feet

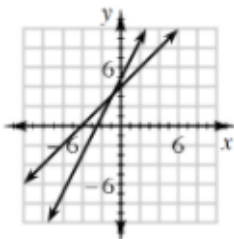
Lesson 5.1.3

5-36. See graph below:

a. (1, 1)



b. (-1, 3)



5-37. See below:

a. 144, 156, 168, 180

b. 264 stamps.

c.  $t(n) = 12n + 120$

d.  $n = 31.67$ ; She will not be able to fill her book exactly, because 500 is not a multiple of 12 more than 120. The book will be filled after 32 months.

5-38. They are not on the same line;  $m_{AB} = -\frac{1}{5}$ ,  $m_{BC} = -\frac{1}{3}$ ,  $m_{AC} = -\frac{1}{4}$ .

5-39. See below:

a.  $y = -3x + 7$

b.  $y = -x - \frac{2}{5}$