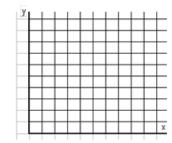
1) Elijah is using a rowing machine. The table shows how many Calories he can burn for certain lengths of time.

Time (min)	Calories
2	24
4	48
6	72
8	96
10	120



Do these ordered pairs satisfy a linear function? Explain.

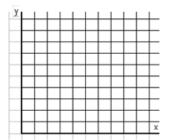
2) Tell whether each function is linear. Explain.

a)
$$2y = -3x^2$$

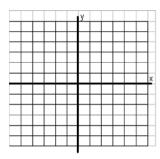
b)
$$y = 4x - 7$$

3) Which set of ordered pairs satisfies a linear function? Explain.

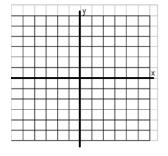
Set A: {(5, 1), (4, 4), (3, 9)}

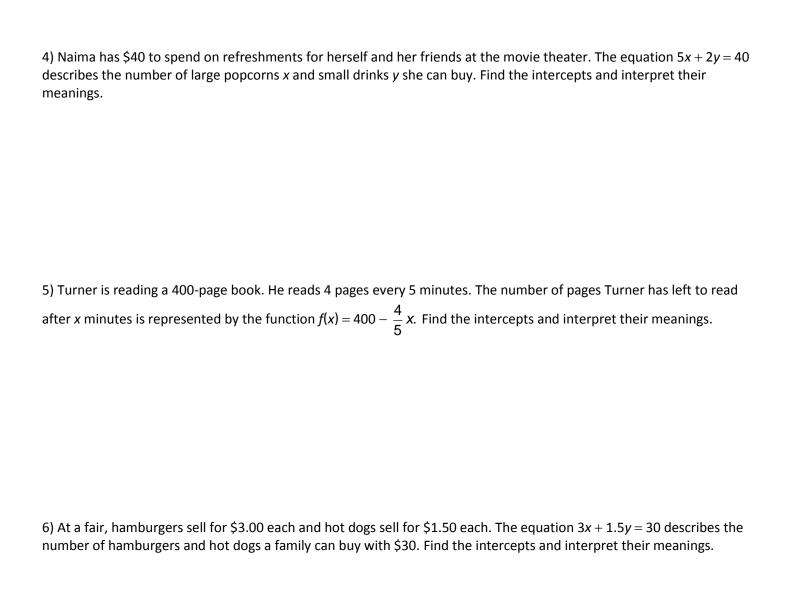


Set B: $\{(1, -5), (2, -3), (3, -1), (4, 1), (5, 3)\}$



Set C: {(2, 6), (3, 4), (4, 2), (5, 0)}





7) The change in water level of one portion of the Mississippi River is about -0.3 ft per day. If the water level starts at 17 feet and falls for x days, the level is represented by the function f(x) = 17 - 0.3x. Find the intercepts and interpret

their meanings.