

Lesson 5.3.1

5-85. See below:

- a. exponential, multiply by 12
- b. linear, add 5
- c. other (quadratic)
- d. exponential, multiply by 1.5

5-86. (2, -4)

5-87. See below:

- a. -3, 6, -12, 24, -48
- b. 8, 3, -2, -7, -12
- c. $2, \frac{1}{2}, 2, \frac{1}{2}, 2$

5-88. Moderate negative linear association with no outliers. The data appear to be in two clusters, probably indicating two classes of vehicles.

5-89. See below:

- a. $(4x + 1)(4x + 1) = 16x^2 + 8x + 1$ or $(4x - 1)(4x - 1) = 16x^2 - 8x + 1$
- b. $(4x + 5)(2y - 3) = 8xy - 12x + 10y - 15$

5-90. See below:



- a. $y = 2x - 3$
- b. $y = -3x - 1$
- c. $y = \frac{2}{3}x - 2$
- d. $y = \frac{5}{2}x + 9$