Variables, pt.4

Dependent and independent variables

Dependent variable- a variable that depends on another variable for its value.

Independent variables- a variable that does not depend on another variable for its value.

$$Y = 3x + 5$$

dependent variable — independent variable

ex. Solve for y

$y = 2x + 6$, when $x = \{1, 3, 5\}$

when x = 1

$y = 2(1) + 6 = 2 + 6 = 8$; $x = 1, y = 8$

when x = 3

$y = 2(3) + 6 = 6 + 6 = 12$; $x = 3, y = 12$

when x = 5

$y = 2(5) + 6 = 10 + 6 = 16$; $x = 5, y = 16$

Problems: Solve for y using the values given for x.

1.) $y = 7c$ when $c = \{0, 3, 6\}$.

2.) $y = 16b$ when $b = \{4, 5, 6\}$.

3.) $y = 3x + 5$ when $x = \{1, 2, 3\}$.

4.) $y = 5n - 6$ when $n = \{3, 4, 5\}$.

5.) $y = 12b + 12$ when $b = \{1, 3, 5\}$.

6.) $y = t + 2$ when $t = \{7, 8, 9\}$.

7.) $y = 3c - 3$ when $c = \{10, 20, 30\}$.

8.) $y = 4v + 5$ when $v = \{1, 3, 9, 27\}$.

9.) $y = 1a + 9$ when $a = \{2, 4, 6, 8, 10\}$.

10.) $y = 8u + 2$ when $u = \{1, 3, 5, 7, 9\}$.