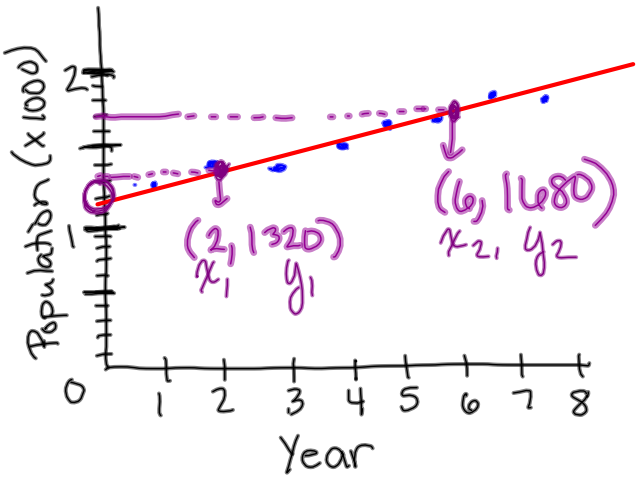
Deer Population Study

Year (x)	Population (y)
1	1260
2	1375
3	1310
4	1490
5	1625
6	1680
7	1740
8	1715



$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{1680 - 1320}{6 - 2} = \frac{360}{4} = 90$$

$(6, 1680)$
x_1 y_1

$$y - y_1 = m(x - x_1)$$
$$y - 1680 = 90(x - 6)$$
$$y - 1680 = 90x - 540$$
$$+1680 \qquad +1680$$
$$\boxed{y = 90x + 1140}$$

Estimate the deer population in the 12th year of the study.

$x = 12$

$$y = 90(12) + 1140$$
$$1080 + 1140$$
$$y = 2220$$

Feb 3-1:39 PM