10.2 Modeling Linear Association Day 3

TSW
- Understand line of best fit.
- Write a linear equation for a line of best fit.
- Use and equation for a line of best fit

**Example 5** **Write a linear equation for a line of best fit.**

The table below gives the percent of adults, $y$ percent, that get their news from newspapers compared to television or online sites for $x$ years since 1990.

| Years Since 1990 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|---|---|---|---|
| Percent of Adults | 64.8 | 66.4 | 64.0 | 61.2 | 62.4 | 60.4 | 60.0 | 59.6 | 54.8 |

a) Construct the scatter plot for the given table of bivariate data. Use 1 centimeter on the horizontal axis to represent 2 years. Use 1 centimeter on the vertical axis from 54 to 68 to represent 2%. Draw a line of best fit and write its equation.

b) Use the line of best fit to interpret the meaning of the slope and the y-intercept in context.