Complete each table using the given linear regression (round your answer to one decimal place).

1. Linear Regression Equation: $y=0.5 x$

| $x$ | $y$ | Predicted value |
| :--- | :--- | :--- |
| 5 | 3 |  |
| 10 | 4 |  |
| 15 | 9 |  |
| 20 | 7 |  |
| 25 | 13 |  |
| 30 | 15 |  |

2. Linear Regression Equation: $y=-0.4 x+16.3$

| $x$ | $y$ | Predicted value |
| :--- | :--- | :--- |
| 2 | 5 |  |
| 4 | 15 |  |
| 6 | 26 |  |
| 8 | 23 |  |
| 10 | 30 |  |
| 12 | 25 |  |

3. The table shows the percent of the United States population who did not receive needed dental care services due to cost. Let 1999 be year 0 on the x -axis.

| Year | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Percent | 7.9 | 8.1 | 8.7 | 8.6 | 9.2 | 10.7 | 10.7 | 10.8 | 10.5 | 12.6 | 13.3 |

a. Sketch a scatter plot of the data

b. Using two point from the data estimate the equation of the line of best fit.
c. Create a Table similar to above with the actual $x$ and $y$, and the predicted value given by your line of regression.

