

Quiz 7 Mar. 2, 2001, *Statistics for Business*

Show all of your work to the right side of your answers.

An analysis of 17 pairs of data produced a least squares regression line with equation $\hat{y} = 23 + 3x$.

1. The **fitted value** when $x = 2$ is $\hat{y} = 23 + 3(2) = 23+6 = 29$ __

2. The **residual** when $x = 2$ and $y = 27$ is $27-29 = -2$ __

3. The **slope** of this regression line is 3 __

4. The **y-intercept** of this regression line is 23 __