

Answer on Question #40613, Math, Statistics and Probability

A linear regression has $b = 3$ and $a = 4$. What is the predicted Y for $X = 7$?

Solution

The regression line can be expressed as

$$Y = a \cdot X + b.$$

In our case ($b = 3$ and $a = 4$):

$$Y = 4 \cdot X + 3.$$

The predicted Y for $X = 7$ is

$$Y(7) = 4 \cdot 7 + 3 = 31.$$

Answer: 31.