

Answer on Question#43359 – Math – Algebra

The equation $y = 12.5x + 9.0$ estimates the amount that businesses will spend, in billions of dollars, on a certain business technology, where x is the number of years after 2001 . For what years will the spending be more than \$34 billion.

Solution:

To find for what years will the spending be more than \$34 billion solve the inequality:

$$12.5x + 9.0 > 34$$

$$12.5x + 9.0 - 9.0 > 34 - 9.0$$

$$12.5x > 25$$

$$\frac{12.5}{12.5}x > \frac{25}{12.5}$$

$$x > 2$$

Answer: Businesses will the spending be more than \$34 billion for 2003 years