## **ANSWER on Question #68565 Math. Calculus**

Tim has drawn the graph of

$$y = 2x^2 - x - 23$$

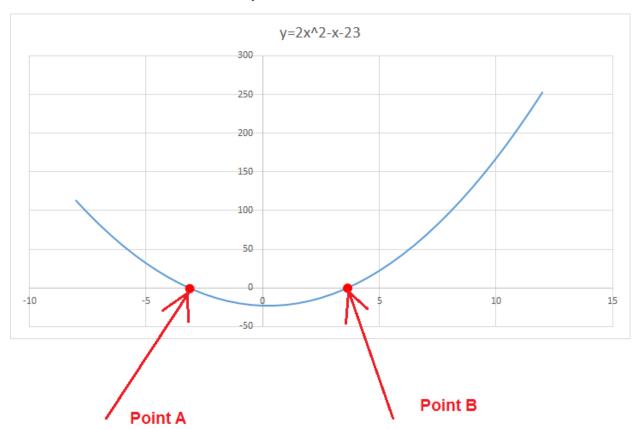
What line should be drawn on the graph to solve the equation

$$x^2 - x - 12 = 0$$

## **SOLUTION**

Tim has drawn the graph of

$$y = 2x^2 - x - 23$$



You can see the result of Tim's work. He did this in order to solve equation

$$2x^2 - x - 23 = 0$$

X-coordinates of the points of intersection of the graph and the Ox axis are solutions of the given equation.

$$\begin{cases} Point \ A: x = \frac{1}{4} - \frac{\sqrt{185}}{4} \approx -3.15 \\ Point \ B: x = \frac{1}{4} + \frac{\sqrt{185}}{4} \approx 3.65 \end{cases}$$

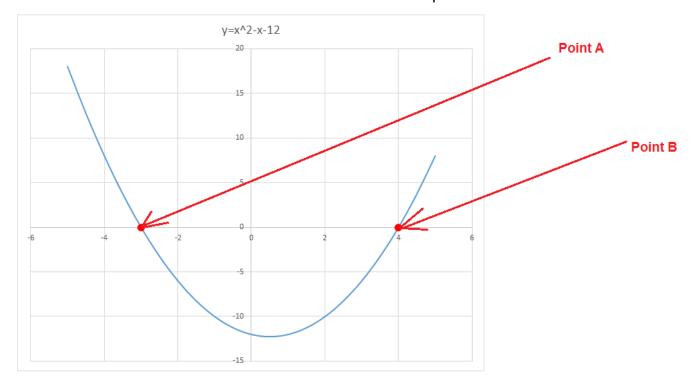
In order to solve equation

$$x^2 - x - 12 = 0$$

Tim needed to build a graph of the function

$$y = x^2 - x - 12$$

and determine the coordinates of the intersection points



X-coordinates of the points of intersection of the graph and the Ox axis are solutions of the given equation.

$${Point A: x = -3 Point B: x = 4}$$

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