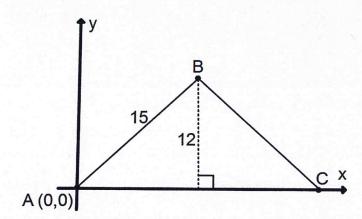
- 1. Solve each problem. Round to the nearest hundredth.
- a) $5^x 11 = 83$

b) $3(7)^x + 1 = 46$

2. You invest \$20,000 in an account that pays 5.2% interest. Find the number of years it will take for the investment to reach a value of \$50,000. Round to the nearest hundredth.



- 3. In the figure above, side \overline{AB} of $\triangle ABC$ contains which of the following points?
- A) (3,2)
- B) (3,5)
- C) (4,6)
- D) (4,10)
- E) (6,8)

1. Solve each problem. Round to the nearest hundredth.

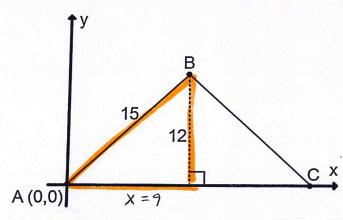
a)
$$5^x - 11 = 83$$

b)
$$3(7)^x + 1 = 46$$

$$\frac{3(7)^{x}}{3} = \frac{45}{3}$$

2. You invest \$20,000 in an account that pays 5.2% interest. Find the number of years it will take for the investment to reach a value of \$50,000. Round to the nearest hundredth.

$$6 + 5.2 = 105.26$$
 $6 = 1.052$



$$x^{2}+12^{2}=15^{2}$$

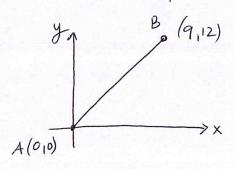
$$x^{2}+144=225$$

$$-144=744$$

$$x^{2}=81$$

3. In the figure above, side \overline{AB} of $\triangle ABC$ contains which of the following points?

- A) (3,2)
- B) (3,5)
- C) (4,6)
- D) (4,10)
- (6,8)



$$M = \frac{12-0}{9-0} = \frac{12}{9} = \frac{4}{3}$$