1.
$$10^x = 375$$

2.
$$4(8^x) = 200$$

3.
$$2^x + 7 = 32$$

4.
$$e^{5x} - 10 = 30$$

- 5. In right $\triangle ABC$, the longest side AB, is 4 feet long, and $\angle 's$ BAC & ABC are equal. What is the perimeter of this triangle in feet?
- A. 8
- B. $4\sqrt{2}$
- C. $4 + 4\sqrt{2}$
 - D. 12
- E. $8 + 4\sqrt{2}$

Solve each equation. Round to the nearest hundredth where necessary.

1.
$$10^x = 375$$

$$2. \quad \frac{4(8^x)}{4} = \frac{200}{9}$$

4.
$$e^{5x} - 10 = 30$$

$$e^{5x} = 40$$

$$ln 40 = 5x = 5x = 0.76$$

3.
$$2^x + 7 = 32$$

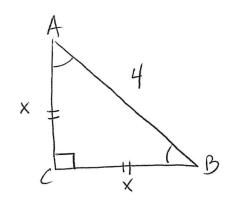
$$\frac{\log 25}{\log 2} = X$$

 $X = 4.64$

5. In right $\triangle ABC$, the longest side AB, is 4 feet long, and $\angle 's$ BAC & ABC are equal. What is the perimeter of this triangle in feet?

C.
$$4 + 4\sqrt{2}$$

E.
$$8 + 4\sqrt{2}$$



$$4^2 = x^2 + x^2$$