Use Pythagorean Theorem to classify each triangle as acute, right, or obtuse, given its side measurements.

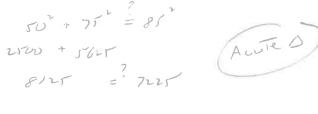
#### 1. 18, 24, 30





#### 3. 20, 30, 40







### 5. 15, 20, 24



## 6. 24, 26, 10





# 7. 24, 10, 30



#### 8. 5, 12, 13





#### 9. 2, 6, $2\sqrt{10}$

$$2^{1} \cdot 6^{1} = (2\sqrt{10})^{1}$$
 $4 + 36 = 40$ 



## 10. 8, 12, $10\sqrt{2}$



# 11. $5\sqrt{2}$ , 10, $3\sqrt{5}$

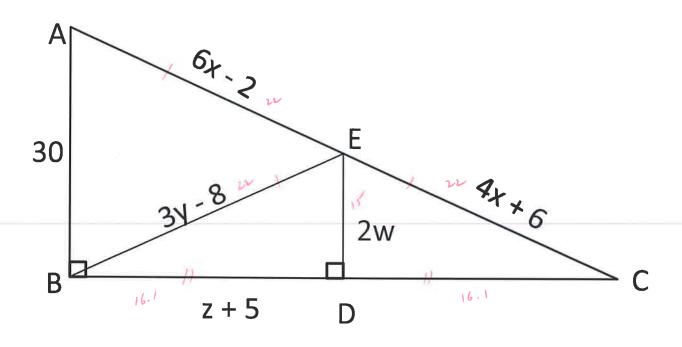


## 12. $3\sqrt{5}$ , $4\sqrt{2}$ , 8



Use your knowledge about triangles to determine the values of each variable.

E is the midpoint of  $\overline{AC}$ . D is the midpoint of  $\overline{BC}$ .  $\triangle$ ABE is isosceles having  $\angle$ AEB as its vertex angle. Round to the nearest tenth if necessary.



w = 7.5 $x = 4$	y = 10	z= //./
-----------------	--------	---------

4 510

30 | ?  
?: 32.2  
$$L(\overline{t}+5) = 32.2$$
  
 $2t+10 = 32.2$   
 $2t=22.2$   
 $2 = 11.1$ 

