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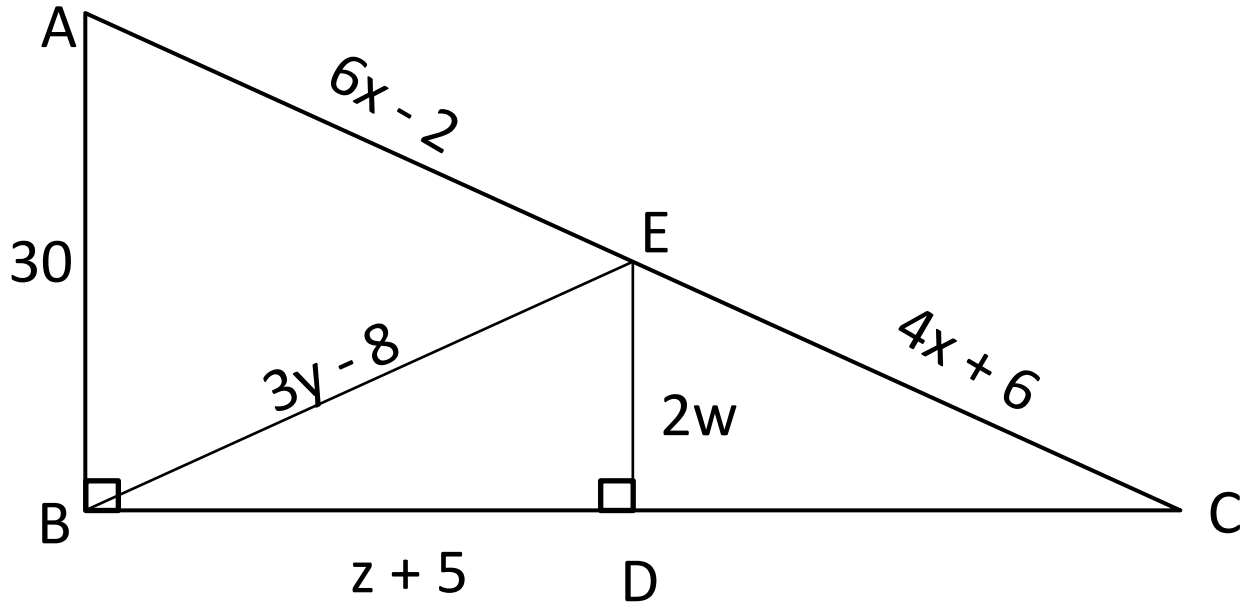
Use Pythagorean Theorem to classify each triangle as acute, right, or obtuse, given its side measurements.

1. 18, 24, 30	2. 16, 34, 30
3. 20, 30, 40	4. 50, 75, 85
5. 15, 20, 24	6. 24, 26, 10
7. 24, 10, 30	8. 5, 12, 13
9. 2, 6, $2\sqrt{10}$	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.

A

6x - 2

E

30

3y - 8

2w

4x + 6

B

z + 5

D

C

| w = | x = | y = | z = |