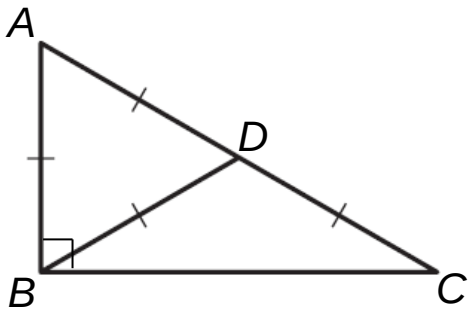
Name _____ **Hour** _____

Classify the given triangle by its *sides*.

1. ΔABC

2. ΔABD

3. ΔBCD



Classify the given triangle by its *angles*.

4. ΔABC

5. ΔABD

6. ΔBCD

Is it possible to construct a triangle with the given side lengths? If you can form a triangle with the given side lengths, classify the triangle as *acute, right,* or *obtuse*.

7. 24, 7, 25

8. 6, 15, 9

9. 28, 21, 20

10. 11, 18, 14

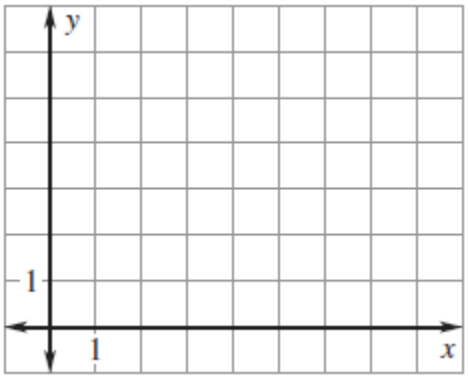
11. 4, 2, $\sqrt{37}$

12. $\sqrt{85}$, 13, 10

Graph points $A(2,1)$, $B(3,6)$, and $C(8,-1)$. Connect the points to form ΔABC.

13. Find the length of $\overline{AB}$.

14. Find the length of $\overline{BC}$.



15. Find the length of $\overline{CA}$.

16. Classify ΔABC by its sides.

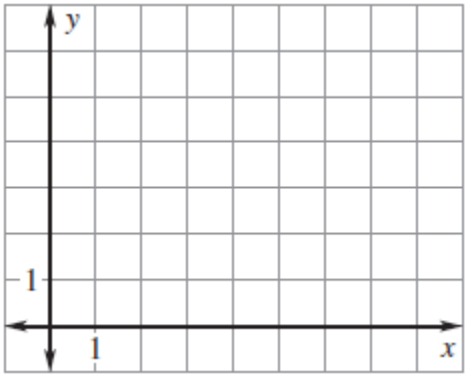
17. Classify ΔABC by its angles.

Triangles #3

Graph points $A(1,2)$, $B(5,5)$, and $C(5,0)$. Connect the points to form ΔABC.

18. Find the length of $\overline{AB}$.

19. Find the length of $\overline{BC}$.



20. Find the length of $\overline{CA}$.

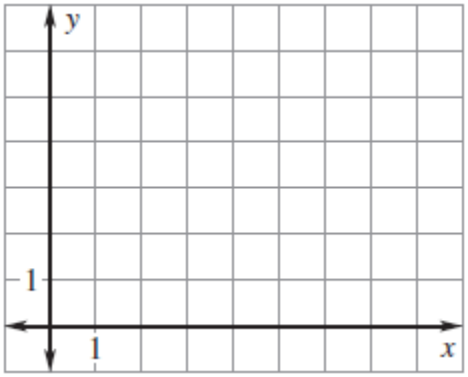
21. Classify ΔABC by its sides.

22. Classify ΔABC by its angles.

Graph points $A(0,4)$, $B(2,1)$, and $C(8,5)$. Connect the points to form ΔABC.

23. Find the length of $\overline{AB}$.

24. Find the length of $\overline{BC}$.



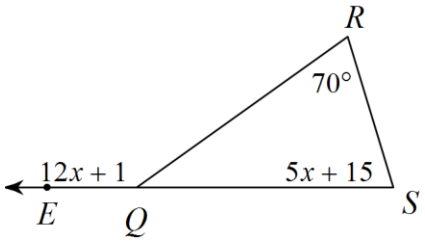
25. Find the length of $\overline{CA}$.

26. Classify ΔABC by its sides.

27. Classify ΔABC by its angles.

Find the measure of the exterior angle shown.

28.



29.