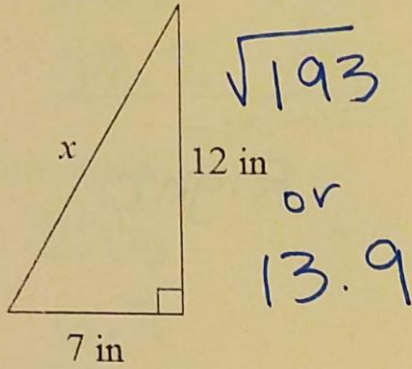
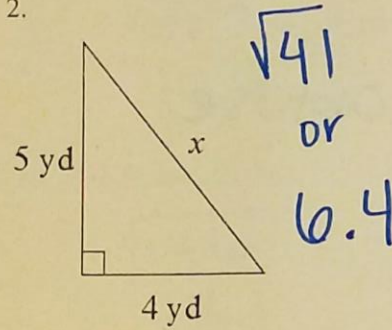


#1-6: Find the length of each missing side.

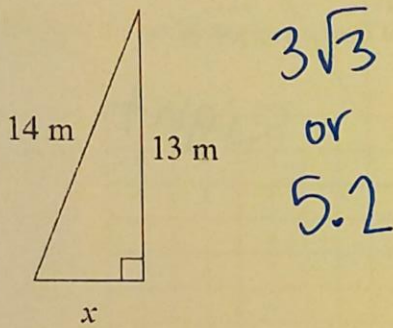
1.



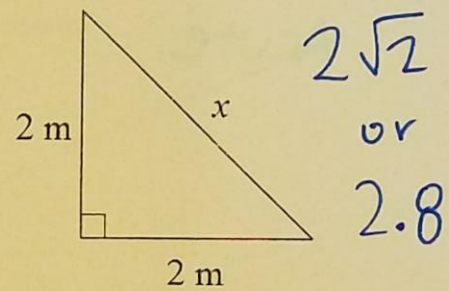
2.



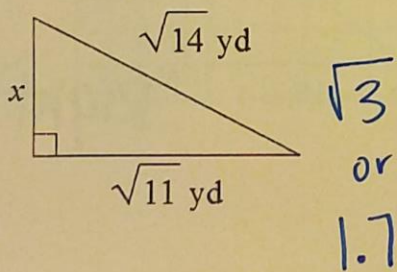
3.



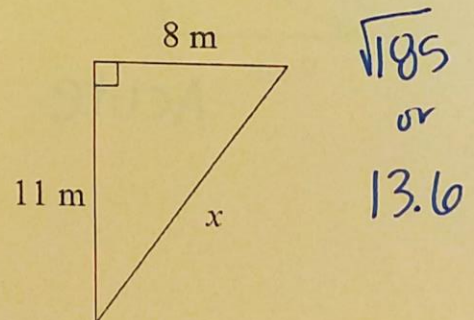
4.



5.

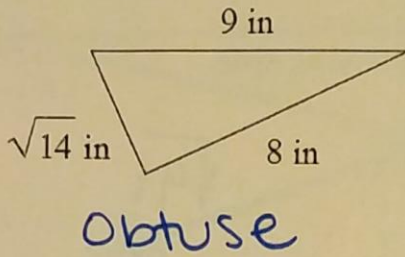


6.

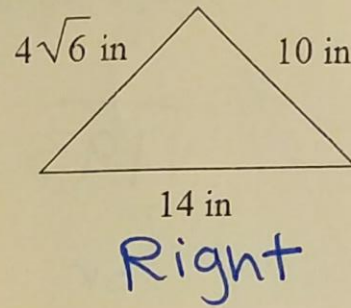


#7-12: State whether each triangle is right, acute, or obtuse.

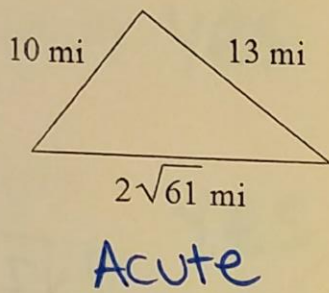
7.



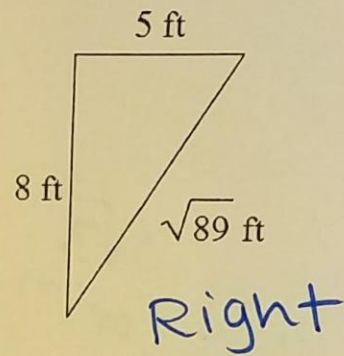
8.



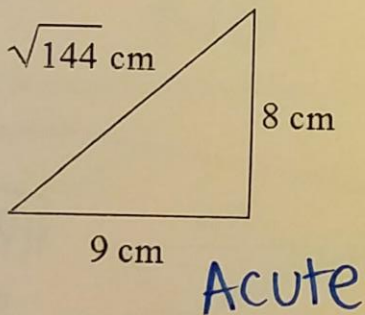
9.



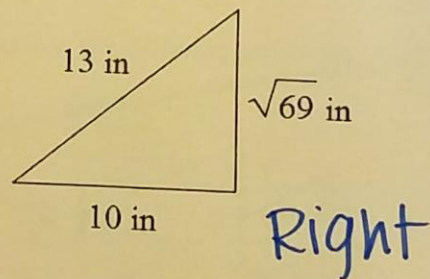
10.



11.



12.



#13-18: Find the distance between each pair of points.
(Write each answer in both EXACT and APPROXIMATE form).

13. $(-5, 6)$ and $(-3, -6)$

$$2\sqrt{37}$$
$$12.2$$

14. $(4, 4)$ and $(-7, -6)$

$$\sqrt{221}$$
$$14.9$$

15. $(-5, -4)$ and $(1, -1)$

$$3\sqrt{5}$$
$$6.7$$

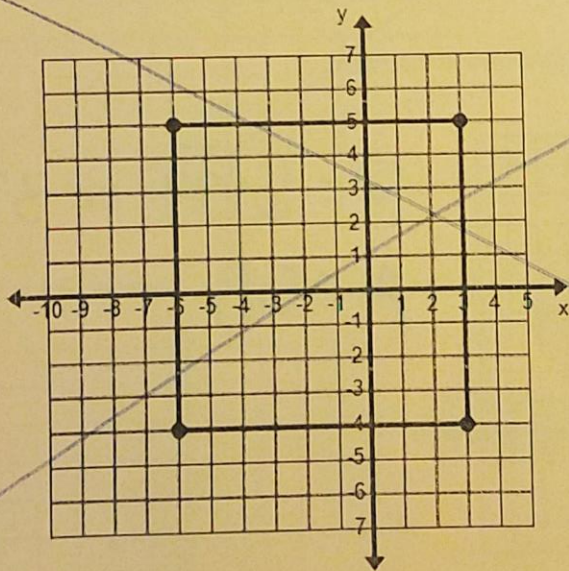
16. $(-2, 5)$ and $(3, -6)$

$$\sqrt{146}$$
$$12.1$$

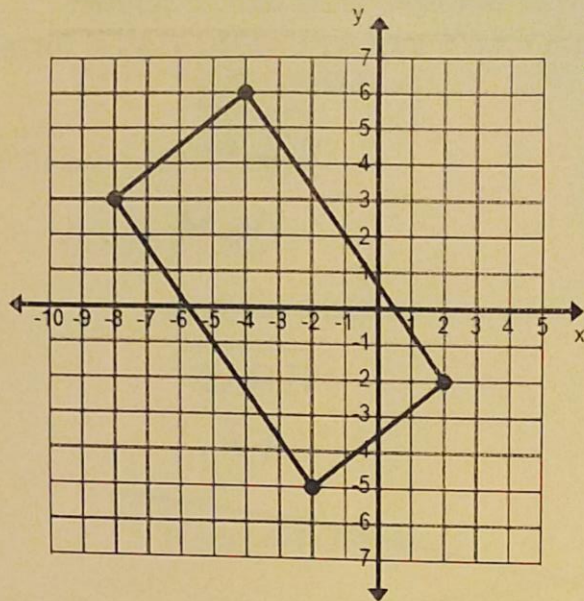
~~17. $(-7, 6)$ and $(-7, -7)$~~

~~18. $(-1, 8)$ and $(5, -5)$~~

19. Find the perimeter and area of the rectangle shown in the diagram.

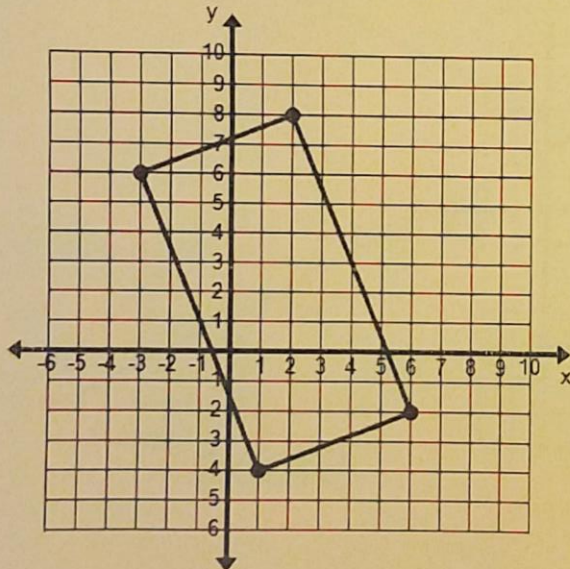


20. Find the perimeter and area of the rectangle shown in the diagram.



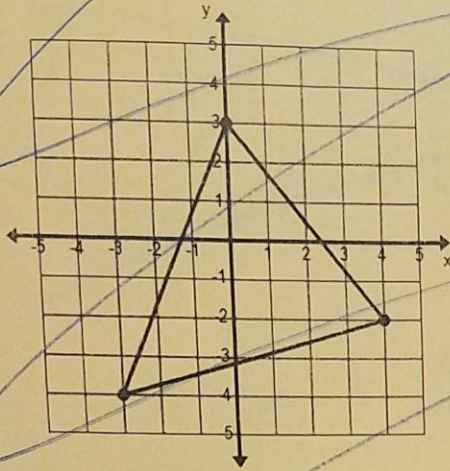
$$P = 30$$
$$A = 50$$

21. Find the perimeter and area of the rectangle shown in the graph.

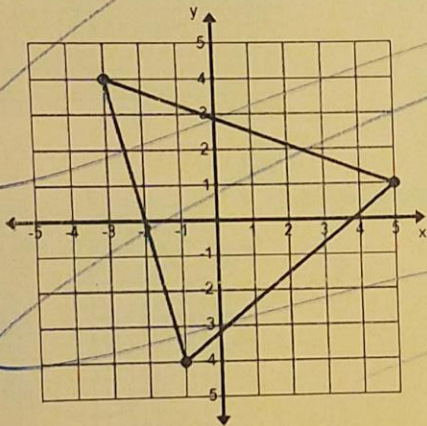


$$P = 6\sqrt{29} \text{ or } 32.3$$
$$A = 58$$

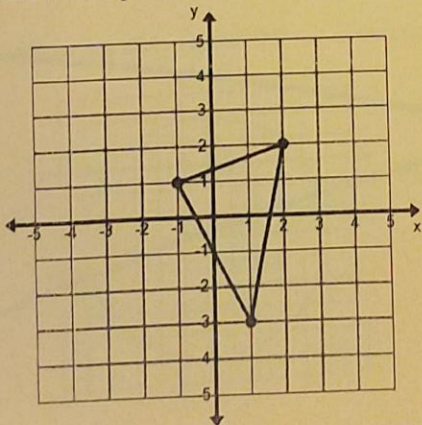
22. Find the perimeter of the triangle shown in the graph.



23. Find the perimeter of the triangle in the graph.



24. Find the perimeter of the triangle in the graph.

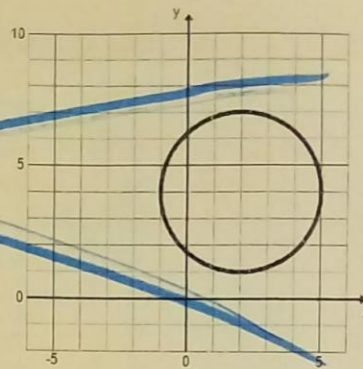


$$P = 12.7$$

25. Given a circle with radius 3 and centered at $(2, 4)$, determine if the following points are on the circle.

A. $(0, 6)$

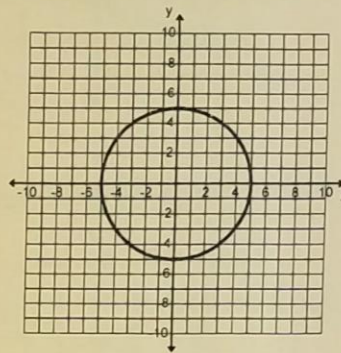
B. $(3.5, 1.5)$



26. Given a circle centered at the origin with a radius of 5, determine if the following points are on the circle.

A. $(\sqrt{3}, \sqrt{22})$ **yes**

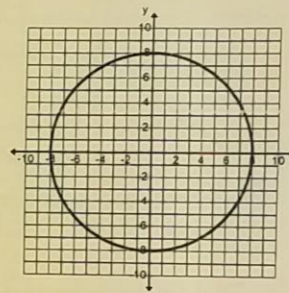
B. $(-3, -4)$ **yes**



27. Given a circle centered at the origin with radius 8, determine if the following points are on the circle.

A. $(5\sqrt{2}, \sqrt{14})$ **yes**

B. $(-4, 7)$ **No**



28. Given a circle centered at $(-1, -3)$ with a radius of 5, determine if the following points are on the circle.

A. $(-4, -7)$

B. $(1.5, -7.5)$

