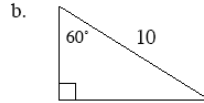
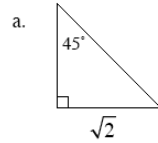
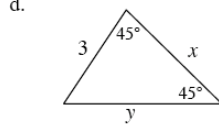
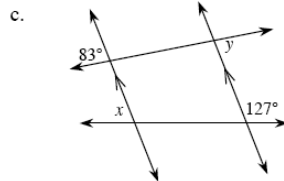
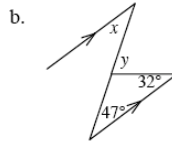
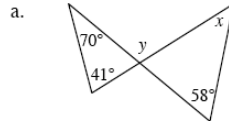


**Review & Preview**

5-46. For each triangle below, use your triangle shortcuts from this lesson to find the missing side lengths. Then find the area and perimeter of the triangle.



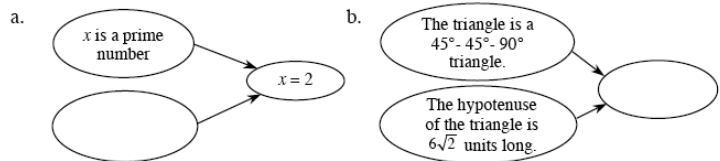
5-47. Use the relationships found in each of the diagrams below to solve for  $x$  and  $y$ . Assume the diagrams are not drawn to scale. State which geometric relationships you used.



5-48. On graph paper, graph  $\overline{AB}$  if  $A(1, 6)$  and  $B(5, 2)$ .

- Find  $AB$  (the length of  $\overline{AB}$ ). Leave your answer in **exact form**. That is, do not approximate with a decimal. Explain your method.
- Reflect  $\overline{AB}$  across the  $y$ -axis to create  $\overline{A'B'}$ . What type of shape is  $ABB'A'$  if the points are connected in order? Then find the area of  $ABB'A'$ .

5-49. Fill in the blank ovals below so that each flowchart is correct.



5-50. Decide if each pair of triangles below are similar. If they are similar, show a flowchart that organizes your **reasoning**. If they are not similar, explain how you know.

