

## Draw Plane Figures With Given Side Lengths and/or Angles

Using a ruler and a protractor, draw the following:

1. A. An obtuse triangle.  
B. A right triangle with two of the angles measuring  $45^\circ$ .

Solution:

A.

B.

2. A. A square WXYZ with each side measuring 4 cm.  
B. Polygon ABCD with  $AB = CD = 5$  cm and  $BC = AD = 10$  cm. All angles measure  $90^\circ$  each.

Solution:

A.

B.

3. Draw the triangles. Find the approximate length of the other sides.  
A.  $AB = 4$  cm;  $\angle ABC = 90^\circ$ ;  $\angle ACB = 45^\circ$   
B.  $BC = 15$  in;  $\angle ABC = 30^\circ$ ;  $\angle ACB = 60^\circ$

Solution:

A.

B.

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### Answer Key

1. (Drawing)
2. (Drawing)
3.
  - a.  $BC = 4 \text{ cm}$  ;  $AC = 4\sqrt{2} \text{ cm}$  or around 5.7 cm
  - b.  $AB = 13 \text{ in}$ ;  $AC = 7.5 \text{ in}$  (approximate values)