tutorified

Draw Plane Figures (Given Side Lengths & Angles)

Using a ruler and a protractor, draw the following:

1. A. A quadrilateral MNOP with four equal sides measuring 5cm each and each angle measuring 90^0.
   B. A quadrilateral WXYZ with two pairs of equal opposite sides. Two consecutive sides measure 8 cm and 6 cm, and each angle measures 90^0.

   Solution:
      A.   B.

2. A. An equilateral triangle with each measuring 3 cm.
   B. A triangle with angles measuring 45^0-45^0-90^0 whose two sides are equal.

   Solution:
      A.   B.

3. Draw the triangles. Approximate the length(s) of the other side(s).
   A. AB = 7.6 cm; ∠ABC = 90° ; ∠ACB = 45°
   B. BC = 6 cm ; ∠ABC = 30°; ∠ACB = 60°

   Solution:
      A.   B.

1. (Drawing)
2. (Drawing)
3. A. BC = 7.6cm; AC = 10.75cm

   B. $AB = 3\sqrt{3}cm$ or around 5.2 cm ; $AC = 3cm$