Congruency of Triangles: Worksheet -5

1. Which of the following pairs of triangles are congruent?

(i) ΔABC, AB = 10 cm,
$\angle A = 40^0, \angle B = 55^0; \Delta XYZ, XY = 10cm, \angle Y = 40^0, \angle Z = 85^0$

(ii) ΔPQR, PR = 5 cm,
$\angle P = 37^0, \angle R = 64^0; \Delta DEF, DE = 5cm, \angle D = 37^0, \angle F = 64^0$

2. In the adjoining figure ΔABC is isosceles as $\overline{AB} = \overline{AC}$. $\overline{BA}$ *and* $\overline{CA}$ are produced to Q and P such that $\overline{AQ} = \overline{AP}$. show that $\overline{PB} = \overline{QC}$.