Congruency of Triangles: Worksheet -7

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

i)
$$\triangle$$
 ABC : AB = 4cm, BC = 5 cm, \angle B = 72°
 \triangle PQR : QR = 4 cm, RP = 5 cm, \angle R = 72°

ii)
$$\triangle$$
 ABC : AB = 4cm, BC = 5 cm, \angle B = 72° \triangle PQR : PQ = 4 cm, RP = 5 cm, \angle R = 72°

iii)
$$\triangle$$
 ABC : BC = 6cm, $\angle A = 90^{\circ}$, $\angle C = 50^{\circ}$
 \triangle PQR : QR = 6 cm, $\angle R = 50^{\circ}$, $\angle Q = 40^{\circ}$



- v) \triangle ABC : \angle A= 90°, BC = 8 cm, AB = 5 cm
 - \triangle PQR : \angle P = 90°, QR= 8cm, PR=5cm
 - vi) \triangle ABC and \triangle ADC in which AB=AD and BC=CD

vii) \triangle ABC and \triangle ABD in which AC=AD and \angle ABC = \angle ADB=90°

viii) \triangle ABC and \triangle PQR in which BC = QR, $\angle A = 90^{\circ}$, $\angle B = \angle Q = 65^{\circ}$ and $\angle R = 25^{\circ}$

