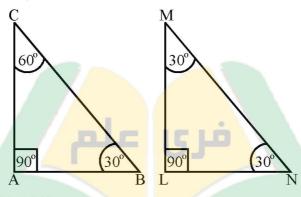


Review Exercise 10

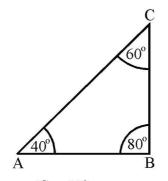
- Q.1 Which of the following are true and which are false.
- (i) A ray has two end points. (False)
- (ii) In a triangle there can be only are right angle. (True)
- (iii) Three points are said to be collinear if they lie on same line. (True)
- (iv) Two parallel lines intersect at a point. (False)
- (v) Two line can intersect only one point. (True)
- (vi) A triangle of congruent sides has non-congruent angles. (False)

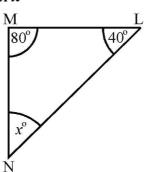
Q.2 In $\triangle ABC \cong \triangle LMN$, then



- (i) $m\angle M \cong \underline{m\angle B} = 30^{\circ}$
- (ii) m \angle N \cong m \angle C = 60°
- (iii) $m\angle A \cong \underline{m\angle L} = 90^{\circ}$

Q.3 If $\triangle ABC \cong \triangle \angle MN$ then find the value of x





$$m\angle N = m\angle C = 60^{\circ}$$

$$m\angle N = x = 60^{\circ}$$

Sum of three angle in a triangle is 180

So
$$x + 80 + 40 = 180$$

 $x + 120 = 180$
 $x = 180 - 120$

$$x = 60^{\circ}$$

Q.4 Find the value of unknowns for the given congruent triangles.

It is an isosceles triangle

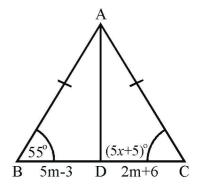
$$m\overline{AB} = m\overline{AC}$$

and
$$m\angle B = m\angle C$$

when we draw a perpendicular from point A to BC it Bisect

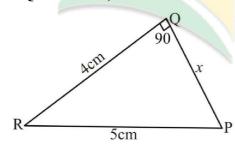
So
$$\overline{BD} \cong \overline{DC}$$

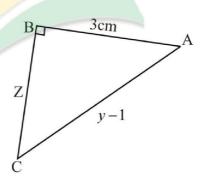
 $5m-3=2m+6$
 $5m-2m=6+3$
 $3m=9$
 $m=\frac{9}{3}$
 $m=3$



opposite angle are congruent

Q.5 If $\triangle PQR = \triangle ABC$, the find the unknowns





By using definition of congruent triangles.

$$\overline{RP} = \overline{AC}$$

$$5 = y - 1$$

$$5+1=y$$

$$y = 6cm$$

$$\overline{AB} = \overline{QP}$$

$$3cm = x$$

Or

$$x = 3 \text{cm}$$

$$\overline{BC} = \overline{QR}$$

$$Z = 4cm$$

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Report any mistake at freeilm786@gmail.com