



In The Service of Student Community

MM 20

Lines and Angles

Time 45 Minutes

Section A 1 Mark Each

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- An angle differs from its complementary angle by 30° , The angle is equal to
(A) 60° (B) 80° (C) 70° (D) 20°
- The angle which is 8 times its supplement is
(A) 80° (B) 72° (C) 90° (D) 160°
- An exterior angle of a triangle is 100° and its two interior opposite angles are equal. Each of these equal angles is
(A) $37\frac{1}{2}^\circ$ (B) $52\frac{1}{2}^\circ$ (C) $72\frac{1}{2}^\circ$ (D) 75°
- If a Δ one angle is equal to sum of other two angles then Δ is
(A) An acute triangle (B) an obtuse triangle
(C) A right triangle (D) an isosceles triangle
- The sum of the acute angles on an obtuse triangle is 70° and their difference is 10° . The largest angle is
(A) 110° (B) 105° (C) 110° (D) 95°

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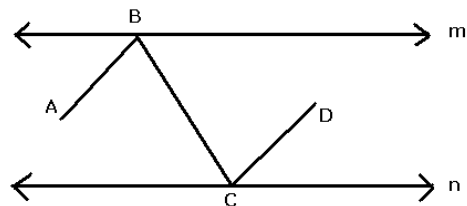
Time 45 Minutes

Section B 2 Marks Each

7. If a transversal intersects two lines two lines such that the bisectors of a pair of corresponding angles are parallel, then prove that two lines are parallel.

Section C 3 Marks Each

8. In the given figure, m and n are two plane mirror parallel to each other. Show that the incident ray CA is parallel to reflected ray BD .



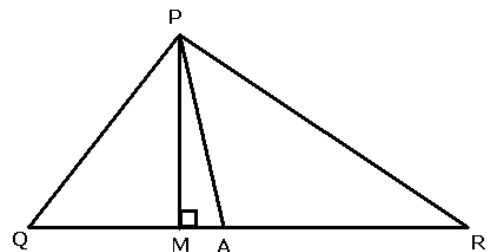
9. In triangle ABC the bisectors of $\angle ABC$ and $\angle ACB$ meet at a point O .

Prove that $\angle BOC = 90^\circ + \frac{1}{2}\angle A$

10. Arms of one angle are respectively parallel to arms of other angle . Prove angles are equal or supplementary.

Section D 4 Marks Each

11. In figure $\angle Q > \angle R$, PA is the bisector of $\angle QPR$ and $PM \perp QR$. Prove that $2\angle APM = \angle Q$



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