CBSE SAMPLE PAPER

Lines Angles class IX

Section A MCQ . 1 Mark Each

Q.1 An angle is 16° more than its complement. Then its measure is

(a) 42° (b) 48° (c) 53° (d) 68°

Q.2 The angles of a triangle are in the ratio 5 : 3 : 7. The triangle is

(a) An acute angled triangle (b) An obtuse angled triangle

(c) A right triangle (d) An isosceles triangle.

Q.3 the necessary conditions for the lines I and m to be parallel, when these lines are intersected by a transversal line .n. is that

(a) Interior angles on the same side are equal. (b) Corresponding angles are equal

(c) Vertically opposite angles are equal. (d) Corresponding angles are not equal.

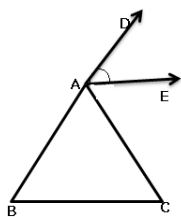Q.4 One angle forming a linear pair is twice the other. The larger is

(a) 120° (b) 60° (c) 160° (d) None of these

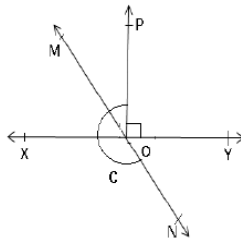Q.5 co interior angles are also called _____ angles

(a) allied (b) alternate (c) complementary (d) None of these

Section B 2 Mark Each

Q.6 In figure , AE bisects $\angle$BAD and $\angle$B = $\angle$C . Prove that AF || BC .

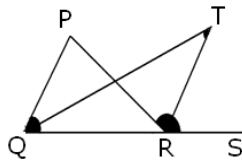Q.7 In the figure lines XY and MN intersect at O,If 0 $\angle$POY = 90 and a : b = 2 : 3, find c.

Section C   3 Mark Each

Q.8 In the figure the side QR of triangle PQR is produced to a point S. If the bisectors of ∠PQR and ∠PRS meet at point T, then prove that <QTR= 1/2 <QPR.

Section   D 4 Mark Each

Q.9 In the figure, m and n are two plane mirrors parallel to each other. Show that the incident ray CA is parallel to the reflected ray BD.
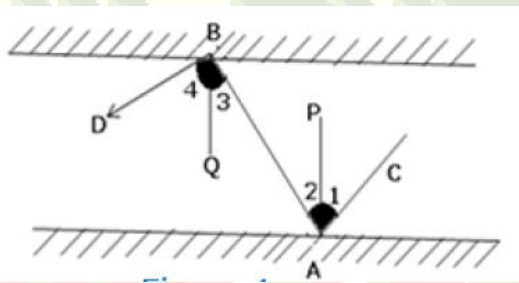
Q.10 In figure BD bisects ∠EBC , CD bisects ∠FCB . Prove < BDC= 90 – 1/2<A