

CLASS TEST

Chapter 6: Lines & Angles

Time: 40 minutes

F.M. - 15

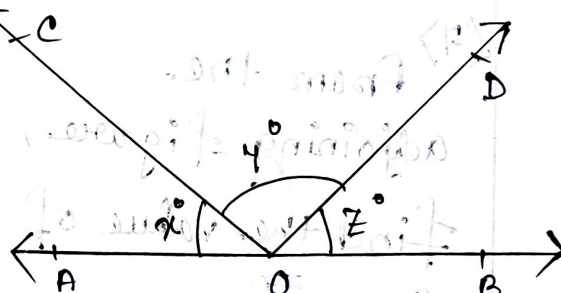
[A] Multiple choice questions: — $1 \times 8 = 8$

(1) The angle which is 8 times of its complement is —

- (a) 80° (b) 72° (c) 90° (d) 88°

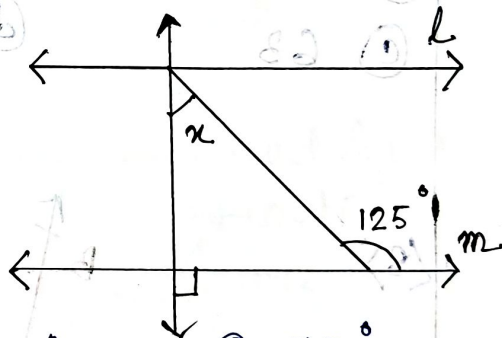
(2) In the adjoining fig., if $\frac{y}{x} = 5$ and $\frac{z}{x} = 4$, then the value of x is —

- (a) 8° (b) 18° (c) 12° (d) 15°



(3) In the adjacent figure, if lines l and m are parallel, then the value of x is —

- (a) 35° (b) 55° (c) 65° (d) 75°



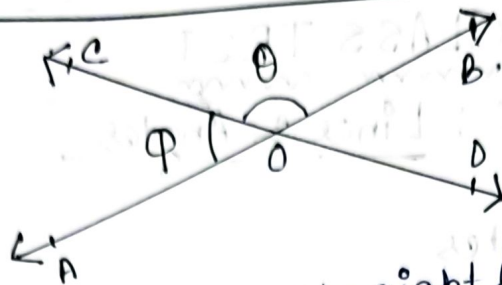
(4) The sum of two adjacent angles is 100° and one of them is 35° , then the other is —

- (a) 70° (b) 65° (c) 135° (d) 145°

(5) The supplement of an obtuse angle will be —

- (a) right angle (b) acute angle (c) right angle (d) reflex angle

<6>



In the figure above, straight lines AB and CD intersect at O. If $\angle AOC = \phi$, $\angle BOC = \theta$ and $\theta = 3\phi$, then $\phi = ?$

(a) 30°

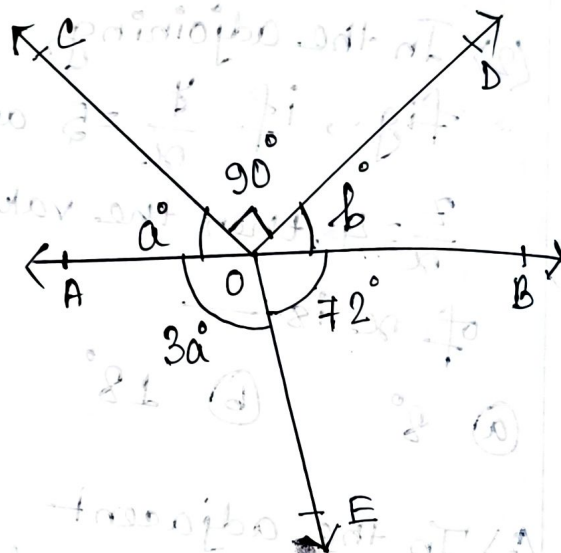
(b) 40°

(c) 45°

(d) 60°

<7>

From the adjoining figure, find the value of b .



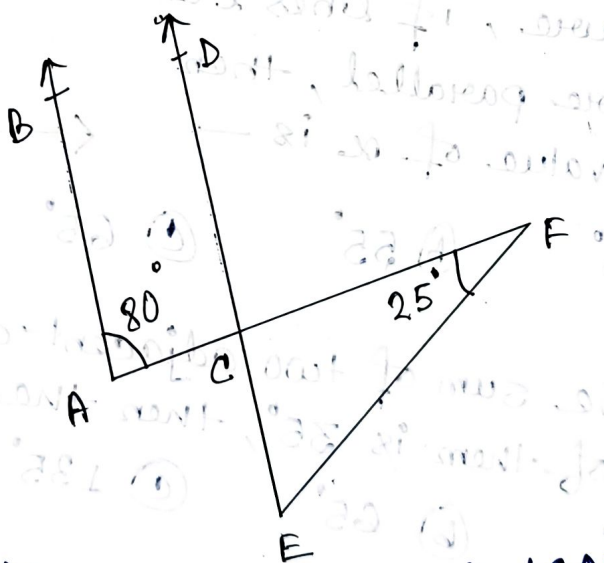
(a) 36

(b) 54

(c) 63

(d) 72

<8>



In the above figure, $AB \parallel CD$. If $\angle CAB = 80^\circ$, $\angle FEC = 25^\circ$, then $\angle CEF = ?$

(a) 65°

(b) 55°

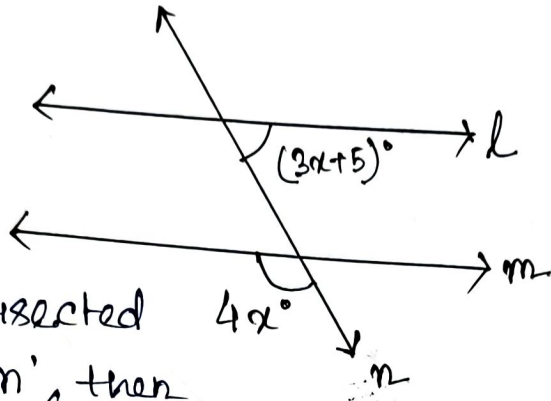
(c) 45°

(d) 75°

[B] Assertion-Reason based Problems :- [1x2=2]

(1) Assertion (A):

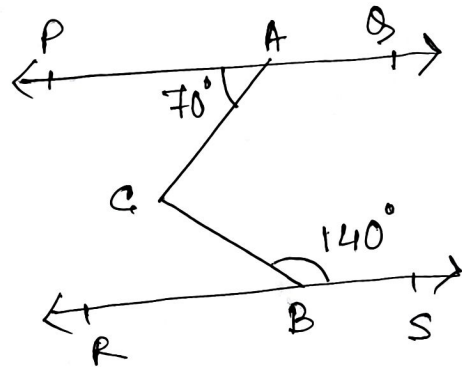
In the given figure, if parallel lines l and m are intersected by a transversal ' n ', then $x = 25$.



Reason (R): If two parallel lines are intersected by a transversal, then each pair of co-interior angles are supplementary.

(2) Assertion (A):

In the given figure, if $PQ \parallel RS$, then reflex $\angle ACB = 250^\circ$



Reason (R):

If two parallel lines are intersected by a transversal, then each pair of alternate interior angles are equal in measure.

[C] Higher Order Thinking Skill Problems :-

(1) In the figure given, $l_1 \parallel l_2$ and $l_3 \parallel l_4$. Find the values of p , q , r and s . [5]

