

VII - Mathematics Assignment No-02-Lines and Angles.

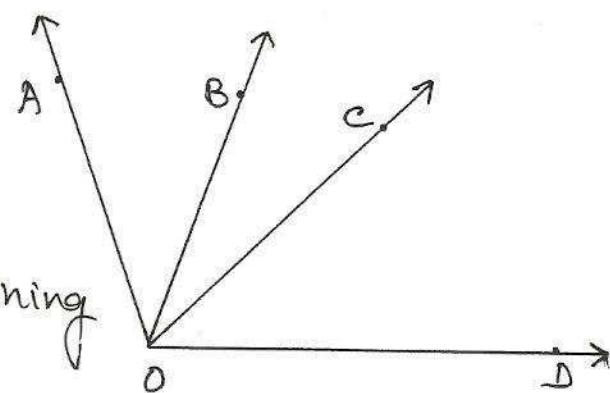
Q1. How many degrees are there in

- (i) one right angle
- (ii) $\frac{1}{2}$ right angles
- (iii) 2 right angles
- (iv) $\frac{2}{3}$ right angles.

Q2. Find the angle which is

- (i) equal to its supplement
- (ii) equal to its complement
- (iii) twice its complement
- (iv) twice its supplement
- (v) five times its supplement.

Q3. Write down each pair of adjacent angles from the adjoining figure. Are $\angle AOC$ and $\angle AOD$ adjacent angles?



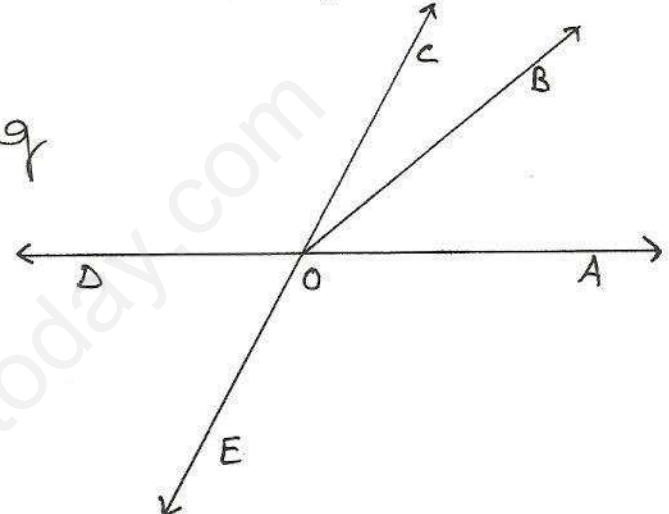
Q4. (i) Can two acute angles form a linear pair?
 (ii) Can both angles of a linear pair be obtuse?

Q5.

- (i) one of the angles forming a linear pair is an obtuse angle. What kind of angle is the other?
- (ii) One of the angles forming a linear pair is a right angle. What can you say about the other angle?

Q6. From the adjoining

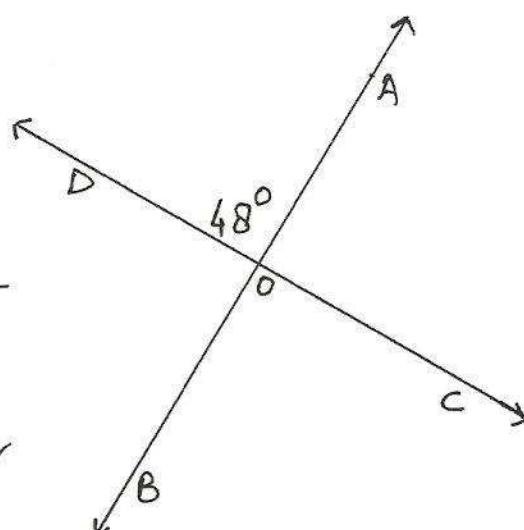
figure, name the angles



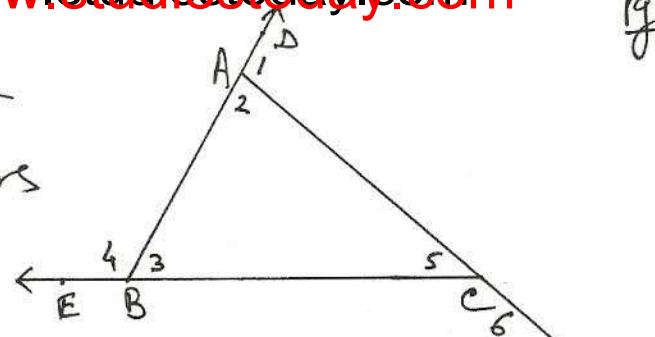
- (i) Adjacent of $\angle AOB$
- (ii) Vertically opposite of $\angle DOE$
- (iii) All Linear Pairs.

Q7. Two lines AD and CD are intersecting at point O. If

$\angle AOD = 48^\circ$. Find other angles.

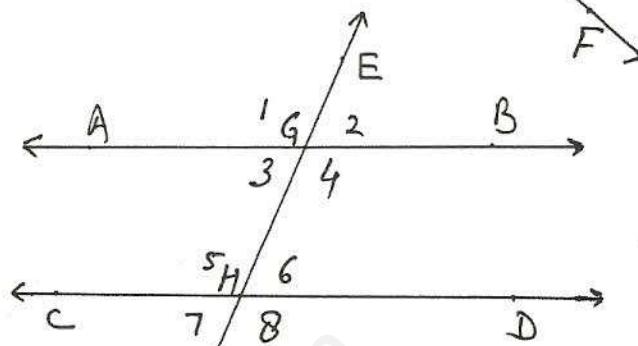


Q8. From the adjoining figure, write all pairs of adjacent angles.



Q9. From the adjoining figure, write

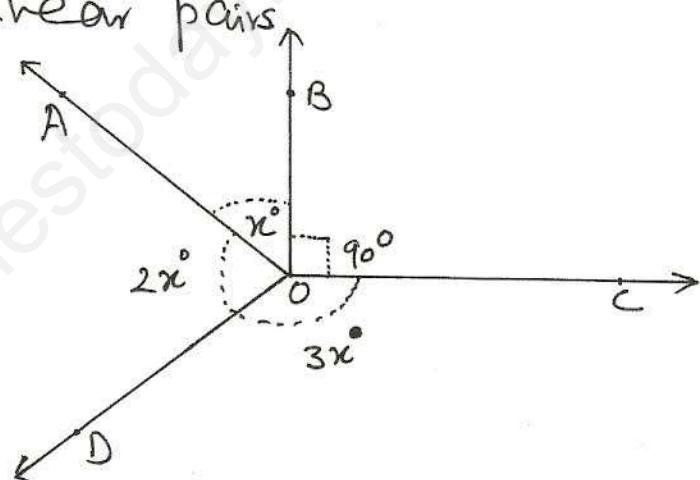
(i) Vertically opposite angles



(ii) Angles forming linear pairs

Q10. From the adjoining figure, calculate

$\angle AOB$, $\angle AOD$ and $\angle COD$.



ANSWERS:-

Q1 (i) 90° (ii) 135° (iii) 180° (iv) 60°	(Q3) $\angle AOC \& \angle COD$ $\angle COD \& \angle DOB$ $\angle AOC \& \angle COB$ $\angle AOD \& \angle DOB$	(Q5) i) Acute (ii)锐角	$\angle ADE, \angle DOE$ $\angle COD, \angle DOE$ (Q7) $\angle DOB = 132^\circ$ (Q8) $\angle 1, \angle 2$ $\angle 3, \angle 4$ $\angle 5, \angle 6$ (Q9) $\angle 1 = \angle 4$ $\angle 2 = \angle 3$ $\angle 5 = \angle 8$ $\angle 6 = \angle 7$	$\angle 1 + \angle 2 = 180^\circ$ $\angle 2 + \angle 4 = 180^\circ$ $\angle 3 + \angle 4 = 180^\circ$ $\angle 1 + \angle 3 = 180^\circ$ and so on.
Q2 (i) 90° (ii) 45° (iii) 60° (iv) 120° (v) 150°	No: $OC \& OD$ are not on Opp. sides of common arm OA & (i) No (ii) No	(i) $\angle BOC, \angle BOD$ and $\angle AOE$ (ii) $\angle AOC$ (iii) $\angle AOB, \angle BOD$ $\angle AOC, \angle COB$ $\angle AOC, \angle AOE$ $\angle COB, \angle BOE$	$\angle BOC = 48^\circ$ $\angle AOC = 132^\circ$ (Q10) $\angle AOB = 45^\circ$ $\angle AOD = 90^\circ$ $\angle COD = 135^\circ$	(Q10)