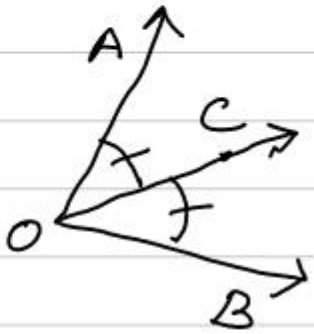
(7) no. they may or may not be right ∠s

∠AOC and ∠BOC are adjacent and equal but not right ∠s.



(8) l and m intersect at O, ∠1 = 90°

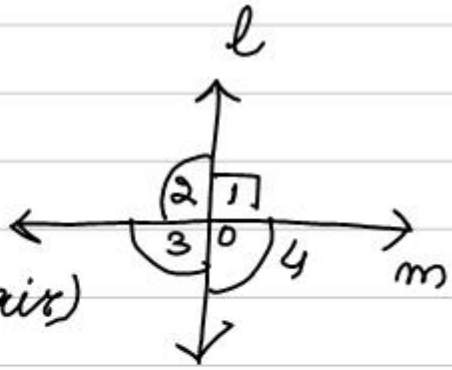
∠1 + ∠2 = 180° (linear pair)

90 + ∠2 = 180°

⇒ ∠2 = 90°

∠4 = ∠2 = 90° [vert. opp. ∠s]

∠3 = ∠1 = 90°



(9) 132 + 48°

= 180°

But these are co ints ∠s

∴ l ∥ m

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73 + 106

= 179°

∵ sum of co ints ∠s ≠ 180°

∴ p is not parallel to q

(10) no

l ∥ m ∠1 = ∠2 = 90°

But these are corres ∠s

∴ l ∥ m