

Lines and angles Ex 14.2 Q2

Answer:

$$\angle$$
ALM = \angle CMQ = 60° (Corresponding angles)
 \angle LMD = \angle CMQ = 60° (Vertically opposite angles)
 \angle ALM = \angle PLB = 60° (Vertically opposite angles)
Since
 \angle CMQ + \angle QMD = 180° (Linear pair)
 \therefore \angle QMD = 180° - 60° = 120°
 \angle QMD = 20° (Corresponding angles)
 20° QMD = 20° (Vertically opposite angles)
 20° QMLB = 20° (Vertically opposite angles)

Lines and angles Ex 14.2 Q3

Answer:

In the given Fig., AB || CD. \angle ALM = \angle LMD = 35° (Alternate interior angles) Since \angle PLA + \angle ALM = 180° (Linear pair) $\therefore \angle$ PLA = 180° - 35° = 145°

********** END ********