

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° – 120° (Corresponding angles)
 \angle QMD = 20° (Vertically opposite angles)
 20° (Vertically opposite angles)
 20° (Vertically opposite angles)

Lines and angles Ex 14.2 Q3

Answer:

In the given Fig., AB || CD.

/ALM = /LMD = 35° (Alte

 $\angle ALM = \angle LMD = 35^{\circ}$ (Alternate interior angles) Since $\angle PLA + \angle ALM = 180^{\circ}$ (Linear pair) $\therefore \angle PLA = 180^{\circ} - 35^{\circ} = 145^{\circ}$

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