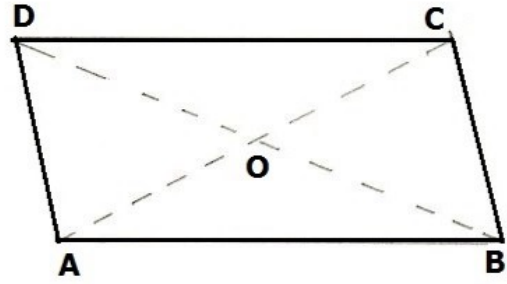


VIII - Ch 1 Rational Numbers Ex 3.3

NCERT Solutions by Dev Anoop (Bathinda)



1. ABCD is a $\parallel\text{gm}$

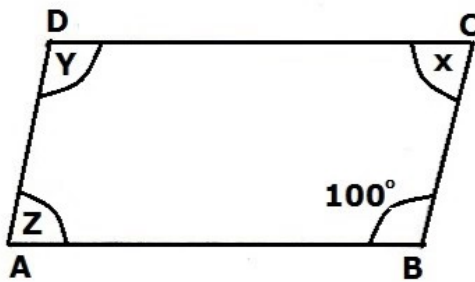
$\therefore AD = BC$ [opposite sides of $\parallel\text{gm}$ are equal]

$\angle DCB = \angle BAD$ [opposite \angle s of a $\parallel\text{gm}$ are equal]

$OC = OA$ [diagonals of a $\parallel\text{gm}$ bisect each other]

$m\angle DAB + m\angle CDA = 180^\circ$
[adjacent \angle s of a $\parallel\text{gm}$]

2.



$\angle C = \angle A$
 $x = 80^\circ$
 $\angle D = \angle B$
 $y = 100^\circ$
[opposite \angle s of a $\parallel\text{gm}$]

\square ABCD is a $\parallel\text{gm}$

$\angle A + \angle B = 180^\circ$ (adjacent \angle s of a $\parallel\text{gm}$)

$$z + 100 = 180$$

$$\Rightarrow z = 180 - 100 = 80^\circ$$