Lines and angles Ex 14.2 Q19

Answer :
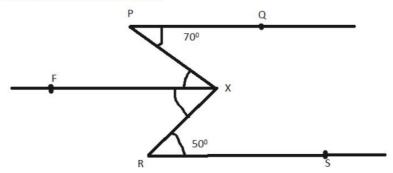
$\angle x + 125° = 180°$ (Linear pair)
$\therefore \angle x = 180° - 125° = 55°$

$\angle z = 125°$ (Corresponding angles)
$\angle x + \angle z = 180°$ (Sum of adjacent interior angles is $180°$)
$\angle x + 125° = 180°$
$\Rightarrow \angle x = 180° - 125° = 55°$

$\angle x + \angle y = 180°$ (Sum of adjacent interior angles is $180°$)
$55° + \angle y = 180°$
$\Rightarrow \angle y = 180° - 55° = 125°$

Lines and angles Ex 14.2 Q20

Answer :

Draw a line parallel to PQ passing through X.

Here,
$\angle PQX = \angle PXF = 70°$ and $\angle SRX = \angle RXF = 50°$ (Alternate interior angles)
$\because PQ \parallel RS \parallel XF$
$\therefore \angle PXR = \angle PXF + \angle FXR = 70° + 50° = 120°$

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