

7  $HE \parallel OP$   
 $\angle 1 = \angle 2 = 40^\circ$  (alternate interior  $\angle$ s)

$\angle 2 = y + z$  (exterior  $\angle$  prop. of  $\Delta$ )

$70 = 40 + z$

$\Rightarrow z = 70 - 40$   
 $= 30^\circ$

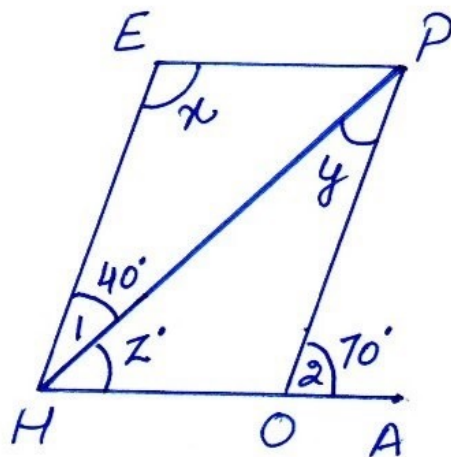
$\angle E + \angle EHO = 180^\circ$  (adjacent angles of a  $\parallel$ gm)

$x + 40 + z = 180^\circ$

$x + 40 + 30 = 180$

$\Rightarrow x = 180 - 70$

$\Rightarrow x = 110^\circ$



8.  $GU \parallel SN$  (\*)

$3y - 1 = 26$

$\Rightarrow 3y = 26 + 1$

$\Rightarrow y = \frac{27}{3}$

$\Rightarrow y = 9 \text{ cm}$

$GS \parallel UN$  (\*)

$3x = 18$

$\Rightarrow x = \frac{18}{3}$

$\Rightarrow x = 6 \text{ cm}$

\* opposite sides of a  $\parallel$ gm

