

2 (v) $\angle D = \angle B$ (opposite \angle s of a \parallel gm)

$$y = 112^\circ$$

In $\triangle ACD$

$$\angle 1 + x + y = 180^\circ \text{ (angle sum A)}$$

$$40^\circ + x + 112 = 180 \text{ (property of } \triangle)$$

$$\Rightarrow x = 180 - 152 \\ = 28^\circ$$

$DC \parallel AB$ (opposite sides of \parallel gm)

$$x = z = 28^\circ \text{ (alternate interior } \angle\text{s)}$$

So it can be a \parallel gm

