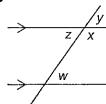
## Practise: Angles and Parallel Lines



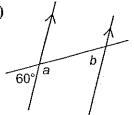


In this diagram,

- the diagonal line is a \_\_\_\_\_
- and are equal because they are opposite angles (X pattern)
- \_\_\_ and \_\_\_ are equal because they are corresponding angles (F pattern)
- \_\_\_ and \_\_\_ are equal because they are alternate angles (Z pattern)
- \_\_\_ and \_\_\_ add to \_\_\_\_\_ o because they are co-interior angles (C pattern)

Find the measure of each angle marked with a letter in these diagrams. List the angle relationship for each calculation.





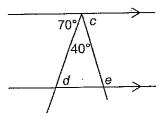
$$a =$$

Reason:

$$b =$$

Reason:

b)



$$c =$$

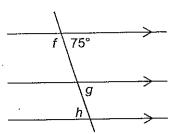
Reason:

$$d =$$

Reason:

Reason:

c)



$$f =$$

Reason:

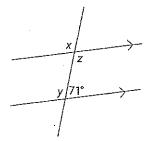
$$\rho =$$

Reason:

$$h =$$

Reason:

۱ړ

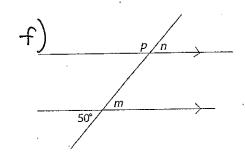


RIASON

Reason

Reason

$$\begin{array}{c|c}
 & y \\
\hline
 & z \\
\hline
 & y \\
\hline
 & x
\end{array}$$



c= 
$$70^{\circ}$$
  
d=  $70^{\circ}$   
e=  $110^{\circ}$ 

c) 
$$f = 105^{\circ}$$
  
 $9 = 75^{\circ}$ 

$$9 = 75^{\circ}$$
  
 $h = 75^{\circ}$   
 $d) \times 2109^{\circ}$ 

e) 
$$x = 83^{\circ}$$
 g)  $f = 117^{\circ}$   
 $z = 97^{\circ}$  h)  $p = 115^{\circ}$ 

$$y = 109^{\circ}$$
 f)  $m = 50^{\circ}$   
 $z = 109^{\circ}$  f)  $p = 130^{\circ}$