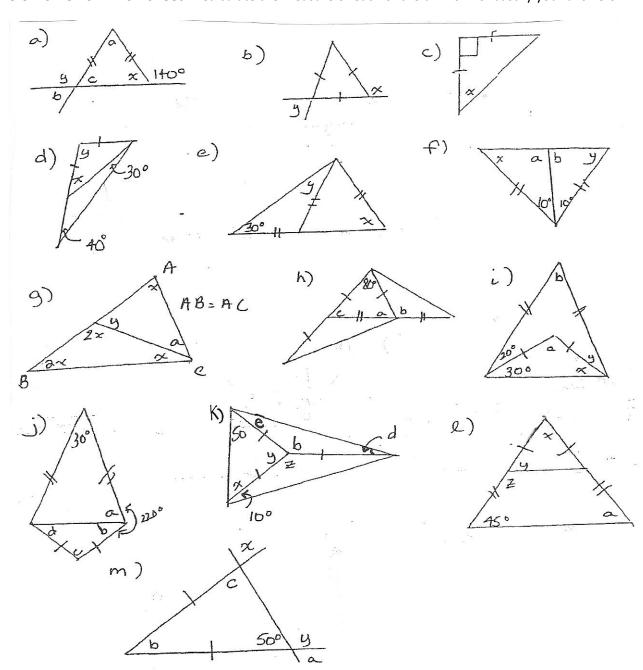
## **5.3 Homework Worksheet** Calculate the measure of each of the unknowns. Justify your answers.



## **SOLUTIONS:**

a) 
$$x = 40^{\circ}$$
 b)  $y = 60^{\circ}$  d)  $x = 70^{\circ}$  f)  $x = 80^{\circ}$  g)  $x = 36^{\circ}$  h)  $c = 50^{\circ}$   $c = 40^{\circ}$   $c = 120^{\circ}$   $c = 40^{\circ}$   $c = 120^{\circ}$   $c = 40^{\circ}$   $c = 120^{\circ}$   $c = 1$ 

i) 
$$x = 30^{\circ}$$
 j)  $a = 75^{\circ}$  K)  $x = 50^{\circ}$  l)  $a = 45^{\circ}$  m)  $a = 50^{\circ}$   
 $y = 20^{\circ}$   $d = 65^{\circ}$   $y = 80^{\circ}$   $x = 90^{\circ}$   $y = 130^{\circ}$   
 $a = 120^{\circ}$   $b = 65^{\circ}$   $z = 160^{\circ}$   $z = 135^{\circ}$   $b = 80^{\circ}$   
 $b = 80^{\circ}$   $c = 50^{\circ}$   $b = 120^{\circ}$   $z = 135^{\circ}$   $b = 80^{\circ}$   
 $e = 30^{\circ}$   $x = 50^{\circ}$