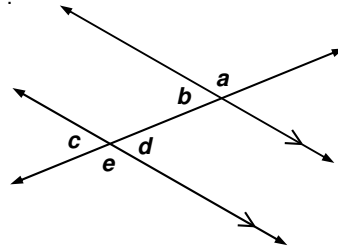


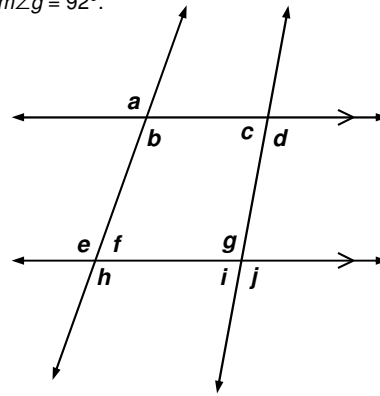
## Showing Your Work: Classwork

1. Find the missing angle measures if  $m\angle c = 57^\circ$ .



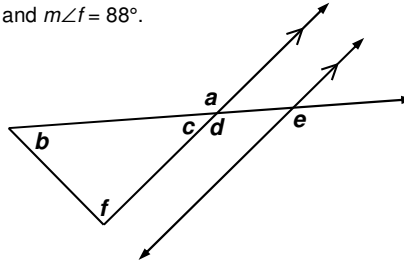
Statements	Reasons
1. $m\angle d =$	$\angle d$ and $\angle c$ are...
2. $m\angle e =$	$\angle e$ and $\angle c$ are...
3. $m\angle b =$	$\angle b$ and $\angle c$ are...
4. $m\angle a =$	$\angle a$ and $\angle e$ are...

2. Find the missing angle measures if  $m\angle e = 115^\circ$  and  $m\angle g = 92^\circ$ .



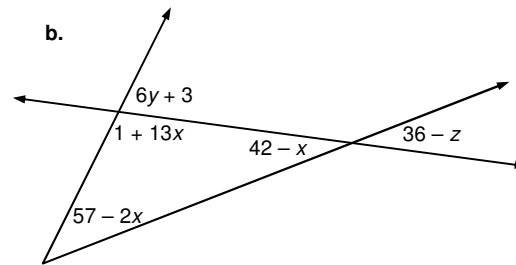
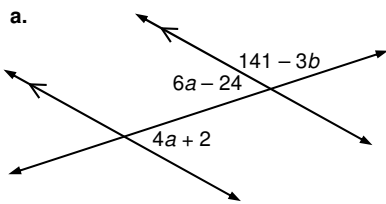
Statements	Reasons
1. $m\angle f =$	$\angle e$ and $\angle f$ are...
2. $m\angle h =$	$\angle e$ and $\angle h$ are...
3. $m\angle b =$	$\angle b$ and $\angle h$ are...
4. $m\angle a =$	$\angle a$ and $\angle b$ are...
5. $m\angle i =$	$\angle g$ and $\angle i$ are...
6. $m\angle j =$	$\angle g$ and $\angle j$ are...
7. $m\angle c =$	$\angle c$ and $\angle i$ are...
8. $m\angle d =$	$\angle d$ and $\angle g$ are...

3. Find the missing angle measures if  $m\angle e = 136^\circ$  and  $m\angle f = 88^\circ$ .

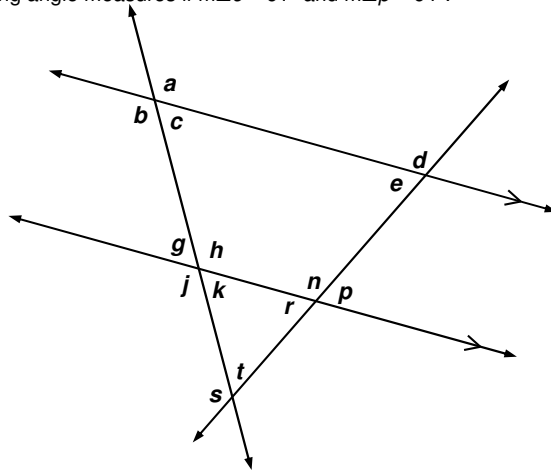


Statements	Reasons
1. $m\angle d =$	$\angle d$ and $\angle e$ are...
2. $m\angle a =$	$\angle a$ and $\angle d$ are...
3. $m\angle c =$	$\angle c$ and $\angle d$ are...
4. $m\angle b =$	Angles in a triangle...

4. Write and solve an equation to find the value of each variable, then calculate the measure of each angle. Show your algebra work!



5. Find the missing angle measures if  $m\angle c = 61^\circ$  and  $m\angle p = 64^\circ$ .



Statements	Reasons
1. $m\angle a =$	
2. $m\angle b =$	
3. $m\angle h =$	
4. $m\angle g =$	
5. $m\angle j =$	
6. $m\angle k =$	
7. $m\angle n =$	
8. $m\angle e =$	
9. $m\angle d =$	
10. $m\angle r =$	
11. $m\angle t =$	
12. $m\angle s =$	

6. Find the interior angle measures for each pair of shaded triangles, then state whether or not the triangles are similar.

