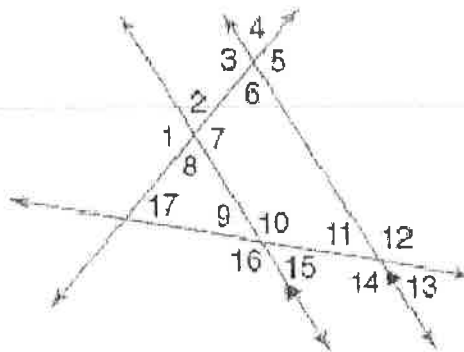


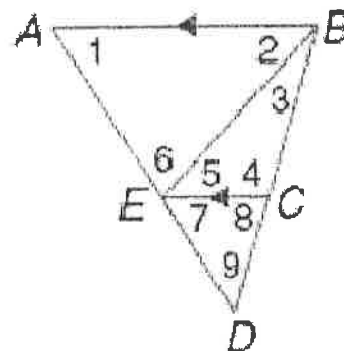
Name Key

In the figure at the right,  $p \parallel q$ ,  $m\angle 1 = 107$ , and  $m\angle 11 = 48$ . Find the measure of each angle.



1) 107	2) 73	3) 107
4) 73	5) 107	6) 73
7) 107	8) 73	9) 48
10) 132	11) 48	12) 132
13) 48	14) 132	15) 48

In the figure,  $\overline{AB} \parallel \overline{EC}$ ,  $m\angle 1 = 58$ ,  $m\angle 2 = 47$ , and  $m\angle 3 = 26$ . Find the measure of each angle.



1) 58	2) 47	3) 26
4) 107	5) 47	6) 75
7) 58	8) 73	9) 49

Number each of the following problems #1 – #5 and redraw the picture on separate paper. Then show all work to find the missing variables. Staple your paper to this worksheet.

Redraw each of the following, solve for the missing variables.

①

$x=16$   
 $y=40$

②

$x=12$   
 $y=10$

③

$x=9$   
 $y=34$   
 $z=142$

④

$x=90$   
 $y=15$   
 $z=13.5$

⑤

$x=14$   
 $y=11$

Write the equation of the line:

1. Parallel to  $y = 5x + 3$  and passing through the point  $(9, 4)$

$$y = 5x - 41$$

2. Perpendicular to the line  $2y = 4x - 8$  and passing through the point  $(-4, 3)$

$$y = -\frac{1}{2}x + 1$$

3. Parallel to a line with slope of 8 and passing through the origin.

$$y = 8x$$

4. Perpendicular to the line  $5x - y = 2$  and passing through the point  $(7, 0)$

$$y = -\frac{1}{5}x + \frac{7}{5}$$