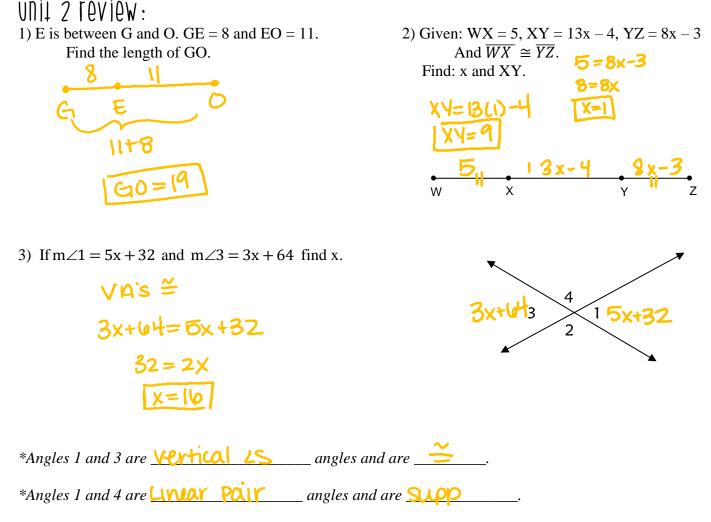
## GEOMETRY MIDTERM REVIEW- STUDY GUIDE UNIT 1, 2 AND 3A

## UNIT I... IFANSFORMATIONS: For #1-3, use the graphs below if needed: 1. Rotate the point E(-1, 2) (80°) 2. Reflect point G(2, 4) over the x-axis. $f(x) = \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{2} + \frac{1}{2} + \frac{1}{6} + \frac{1}{6$

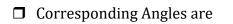
\*Go back to old study guides, notes, homework, Unit 1 Review WS (handed out on Friday) to study more!



\*Make sure to go back and review angle bisector, interior, vocabulary (coplanar, skew, perpendicular, parallel, collinear, non-collinear, etc).\*

UNIL 2 VOCAL TOVIOW: When we KNOW two lines are parallel, we can set up equations using ANY of the angle pair relationships such that....

6



- □ Alternate Interior Angles are
- □ Alternate Exterior Angles are
- □ Same Side Interior Angles are
- □ Same Side Exterior Angles are

## For #4-5, use the diagram below:

4) Find the measures of the angles.Given: *s* || *r*,

 $m \angle 2 = (10x + 4)^{\circ}$  ] = b/c corr  $\angle 3$  $m \angle 6 = (8x + 28)^{\circ}$ 

10x + 4 = 8x + 28



6) Find the slope given the points (-3, -6) and (12, -1)

$$M = \frac{-10 - 1}{-3 - 12} = \frac{-5}{-15} = \frac{1}{3}$$

m=13

8) Write an equation of a line in slope-intercept form that passes through the points (-1,8) and (4, -2).

$$D = \frac{8-2}{-1-4} = \frac{10}{-5} = -2$$

2 y - 8 = -2(x+1)y - 8 = -2x - 2[y = -2x + 6]

10) Write an equation of a line in slope intercept form that is parallel to the line y=-2x+4 and passes through the point (3, 5).

same slope... 
$$m = -2$$
  
 $y-5=-2(x-3)$   
 $y-5=-2x+6$   
 $|y=-2x+11|$ 



5) Given:  $s \parallel r$  and  $m \angle 1 = 70^{\circ}$ Find....  $m \angle 5$ ,  $m \angle 7$ , and  $m \angle 2$ .

$$21 \notin 22$$
 are supp  
 $m_{22} = 180 - 70$   
 $10042 = 1101$ 

7) Write an equation of the line that goes through (12, -4) and slope = (1/2.)

$$y + 4 = \frac{1}{2}(x - 12) \leftarrow pt. slope$$
  
$$y + 4 = \frac{1}{2}x - 6$$
  
$$y = \frac{1}{2}x - 10 \leftarrow S.Int.$$

9) Write an equation of a line in point-slope form that passes through the points (-5, 9) and (0, -6).

$$0 = \frac{9-6}{-5-0} = \frac{15}{-5} = -3$$

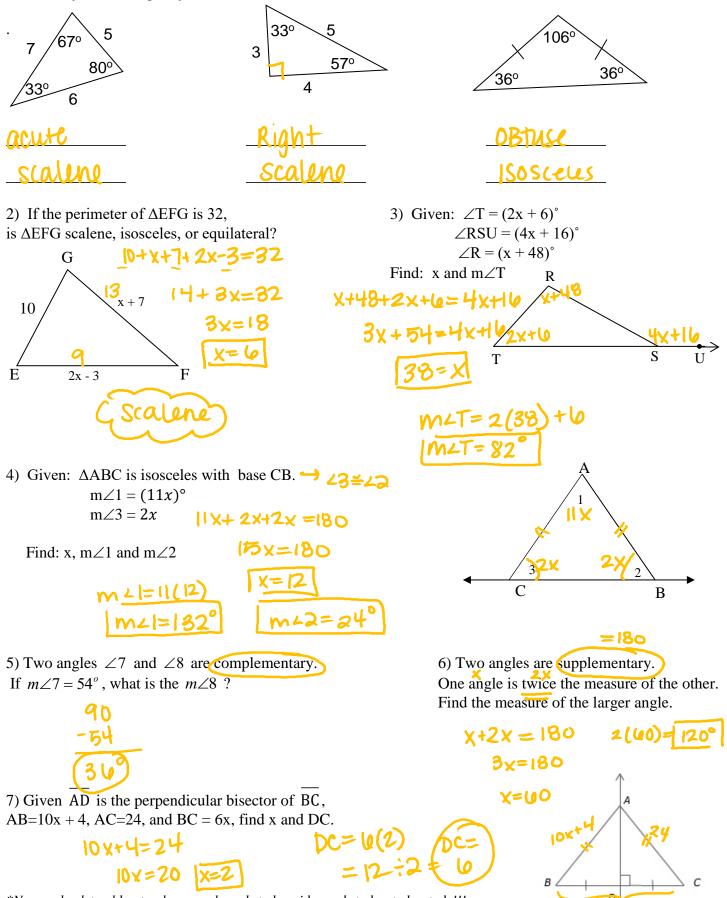
$$(2) \quad y-9 = -3(x+5)$$
or
$$y+6 = -3(x+0)$$

11) Are the lines parallel, perpendicular, or neither? (Hint: Rewrite in y=mx+b) 5x - 4y = 10 and 5y = -4x - 6.

-4U=-BX+10 pp recips... I lines

## UNIL 32 - ILIANDIG

1) Classify each triangle by its ANGLES and SIDES.



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\*Now go back to old notes, homework, and study guides and study, study, study!!!