T-G Geometry Week IIb
$$\sqrt{q}$$
 Graph intercepts
Graph. Standard form
 $3x - by = 12$
 $x = 0$ $-by = 12$ $y - int$
 $x = 0$ $-b = -b = (0, -2)$
 $y = -2$
 $3x - by = 12$ $(-1, 0)$
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 $y = -3$
 $y = 0$ $x = 44$
Find the linear equation for a line parallel
to $4x - 12y = 24$ that goes through $(-6, -3)$
 $y = mx + b$
 $y = -12y = -4x + 24$
 $-3 = (-5)$
 $y = mx + b$
 $y = mx + b$
 $y = mx + b$
 $y = -12 - 12$
 $y = -12 - 2$
 $y = mx + b$
 $y = mx + b$
 $y = -12 - 2$
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Determine the linear equation for a line
perpendicular to
$$y = \left(\frac{3}{4}\right)^{2} + 8$$
 that goes
through $(6, -9)$ perpendicular lineo
have opposite inverse slopes
Find given slope: $-\frac{3}{4}$
Find perpendicular slope: $-\frac{3}{4} - \frac{3}{4} - \frac{3}{4} = \frac{1}{3} = m$
 $y = mx + b$
 $y = mx + b$
 $-9 = (\frac{4}{3})(6) + b$
 $-9 = 8 + b$
 $\frac{-9 = 8 + b}{(-17 = b)}$
 $y = \frac{4}{3}(-17)$

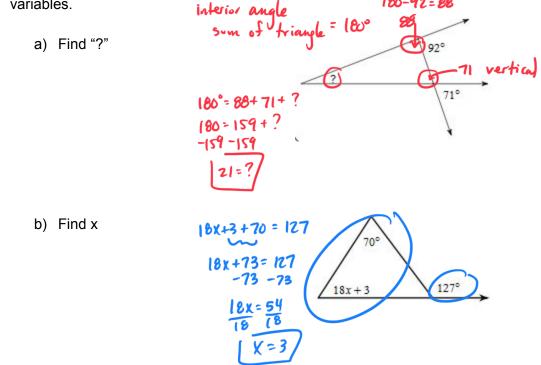
Geometry Chapter 3 Pre-Test

1.) (2 pts each, 10 pts total) Use the following illustration to define the relationship between each of the angles listed. Please include both the type of angles and whether they are congruent, supplemental, or complementary

Vertical (a)
$$(218, 28)$$
 Corresponding
angles
b) $(258, 27)$
congruent
congruent
congruent
congruent
congruent
congruent
(a) $(248, 25)$ alt. intu iofn
angles
congruent
(b) $(258, 27)$
congruent
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4.) (5 pts each, 10 pts total) Use the properties of triangles to find the missing angles and/or variables.

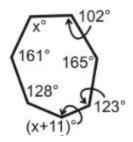
= 180°



- 5.) (5 pts each, 15 pts total) Answer each of the following using your understanding of polygons.
 LBO (N-2)
 - a) What is the total interior angle measure of a 15-sided regular polygon? What is the measure of each angle within the 15-sided regular polygon?

$$l & \theta (15 - 2) \\ l & \theta (13) = 2340 \\ l & \theta (13) = 2340 \\ l & \theta (5 - 2) \\ (4x - 8)^{\circ} & 180(5 - 2) \\ (4x - 8)^{\circ} & 180(3) \\ (3x - 5)^{\circ} & 540 \\ 4x - 8 + 3x - 5 + 92 + 125 + 91 = 180(5 - 3)^{10} \\ 540 \\ 125^{\circ} & 92^{\circ} \\ 540 \\ 125^{\circ} & 92^{\circ} \\ 540 \\ 125^{\circ} & 92^{\circ} \\ 125^$$

c) Find x.

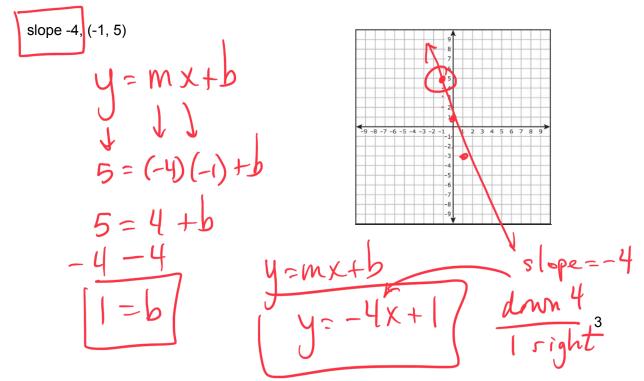


6.) (5 pts each, 10 pts total) Find the slope of each of the following sets of ordered pairs.

(a)
$$(5, 3)(7, -5)$$

 $\frac{y_{z}-y_{1}}{x_{z}-x_{1}} = \frac{-5-3}{7-5} = \frac{-8}{2} = \begin{bmatrix} -4\\ -4 \end{bmatrix}$
b) $(8, -2)(2, 10)$
 $\frac{y_{z}-y_{1}}{x_{z}-x_{1}} = \frac{-5-3}{7-5} = \frac{-8}{2} = \begin{bmatrix} -4\\ -2 \end{bmatrix}$

7.) (5 pts) Write an equation for the line with the given slope that contains the given point. Graph the line.

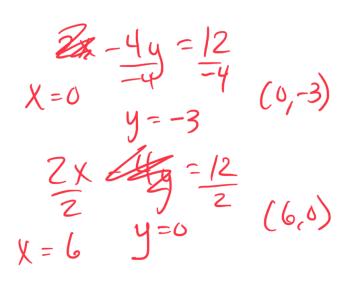


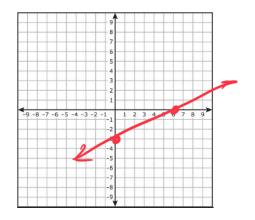
8.) (5 pts each, 10 pts total) Write the equation for the line containing the given points in both point-slope and slope-intercept forms. Graph each line.

a) (-3,4) (6,1)
1. Find slope
$$\frac{y_{z-y_{i}}}{x_{z-x_{i}}} = \frac{1-4}{6-(-3)} = \frac{-3}{9} = \frac{-1}{-3} = \frac{1}{9} + \frac{1$$

9.) (5 pts each, 10 pts total) Graph each line.

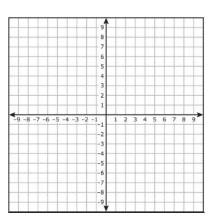
a) 2x - 4y = 12





b)
$$y = \frac{-3}{4}x - 2$$

 $y = m \times + b$



- 10.) (5pts each, 10 pts total) Write the specified equation.
 - a) Write an equation for the line perpendicular to the line $y = \frac{3}{2}x + 5$ that contains the point (-6,3).

b) Write an equation for the line parallel to the line 12x + 3y = 6 that contains the point (1,-2).