Name:	

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LINES TEST REVIEW SHEET

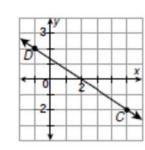
Define each of the following terms:

Slope Intercept Form:			
Perpendicular Bisector:			
Point Slope Form:			
Slope:			
Parallel slopes/lines:			
Perpendicular slopes/lines:			
Transversal:			
Skew Lines:			

Draw an example of each of the following types of Angles:

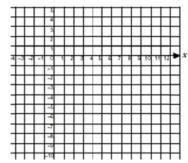
Alternate Interior Angles:
Same-Side Interior Angles:
Linear Pair:

- 1. Write the equation of the line in the picture in POINT-SLOPE FORM.
- 2. Write the equation of a line parallel to the original in SLOPE-INTERCEPT FORM...

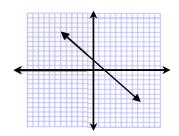


- 3. Write the equation of a line perpendicular to the original that goes through the point (-1, 4) in POINT-SLOPE FORM. (using graph and #'s 1-2)
- 4. Determine the slope of the line containing points A(5, -3) & B(-2, 7).

Show work either on the graph or using slope formula!



- 4 (b). Write the equation of the above line in point-slope form.
- 4 (c). What is the slope of a line that is perpendicular to the one above?
- 4 (d). What is the equation of a line perpendicular to the original line & passes through the point (2, -3)?
- 4 (e). What are the coordinates of the midpoint in between the original two points?
- 4 (f). What is the equation of the perpendicular bisector from the segment formed by the original two points?
- 4 (g). What is the **equation of the line** that is parallel to the line y = 3x + 17?
- 5. The graph of a line is shown. If the y-intercept is cut in half and the slope remains the same, which equation represents the new line?



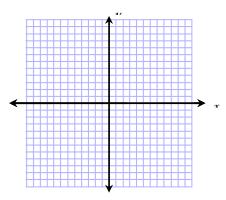
A.
$$y = 2x - 6$$

C.
$$y = -x + 2$$

B.
$$y = -2x - 3$$

D.
$$y = x + 2$$

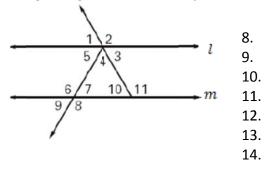
6. Graph the line y - 3 = 4(x - 6).



7. Given A(3, 4), B(5, -2), C(-2, 4) and D(4, 6)...

Are lines AB and CD parallel, perpendicular, or neither?______.

Using the figure below, Identify whether the pair of angles given are CONGRUENT, SUPPLEMENTARY, or NEITHER.



15. 16.

DEF

Е

17. 18.

m∠ABC E

19.

Given: ∠1 and ∠3 are supplementary. ◄

Prove: m | n

Proof:



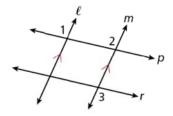
 $m \parallel n$ $\angle 2$ and $\angle 3$ are supplementary. Given \cong Supps. Thm.

Statements	Reasons	
1. ∠1 and ∠3 are supplementary.	1. a	
2. b	2. Linear Pair Thm.	
3. ∠1 ≅ ∠2	3. c	
4. d	4. Conv. of Corr. 🕭 Post.	

20.

Given: $p \mid \mid r, \angle 1 \cong \angle 3$

Prove: ℓ || *m*



Statements	Reasons
1. p r	1.
2.	2. Alt. Ext. ∠s Thm.
3.	3. Given
4. ∠1 ≅ ∠2	4.
5. $\ell \mid \mid m$	5.

21. **Given:** $r \mid \mid s, \angle 1 \cong \angle 2$

Prove: $r \perp t$

