Geometry	Ch 1 Homework	DRHS		
Topic 1 Worksheet	Name:			
Solve for each variable. Show all your work.				
1) $3x - 5 = 90$	2) $5x + 10 + 6x - 3 = 180$	3) $4(2y - 1) = 17$		
4) $8 = 10x + 40$	5) $3x - 7 + 11 - 4x = 29$	6) $30 = -3(5 - 2a)$		
7) $2b + 3b - 10 = 20$	8) $7x + 10 = 4x - 8$	9) $5a - 2 = 11a - 12$		
10)4(3x - 1) = 24 + 5x	11) - 2(3c - 4) = 4(5 + 6c)	12)3w + 40 - 5w + 2 = 3		
	Topic 1 Wo	rksheet continued on next page		

Ch 1 Homework

Geometry Topic 1 Worksheet, continued.

13)
$$2x + 17 - 9 + x = 5x - 1$$

14) 3 - 2(x - 1) = 4(x + 6)

Bonus problem #1: Solve for the variable: $\frac{3}{5}x + 4 = \frac{2}{5}x - 3(4x + 6)$

Bonus problem #2: Factor: $x^2 + 7x + 10$

DRHS



Ch 1 Homework

Geometry Topic 2 Worksheet, continued.

16) Which options below are *not* valid ways to name $\angle 7$? Select all that apply.

- A. ∠*M*
- B. ∠*LMP*
- C. ∠*NML*
- D. ∠*LPM*
- E. ∠*PML*



For # 17 – 24, Use the coordinate system provided. Plot each point, and <u>LABEL each one with the</u> problem number.



DRHS





3

D

21) Name the coordinates of point A below.



22) What quadrant is point A in (from #21)?

A



1.2 Worksheet continued on next page...



16) Name the segment below (2 ways).



18) Point the point (0, -3) on the graph below.



17) Name the line below (7 ways).

X b

19) Which quadrant is (2, -5) in?

Geometry	Ch 2	1 Homework	DRHS	
1.3 Worksheet		Name:		
For #1 – 4: describe each p Show work to ju	air of angles as <i>com</i> istify your conclusion	plementary, supplementary, or nei on.	ther.	
1) 20° and 70°		2) 30° and 30°		
3) 140° and 40°		4) 90° and 90°		
For #5 – 8: find the <i>complement</i> of each angle, if possible. Show your work.				
5) 71°	6) 28°	7) 143°	8) 45°	
For #9 – 12: find the <i>supple</i> 9) 80°	<i>ment</i> of each angle, 10) 20°	if possible. Show your work. 11) 159°	12) 245°	
For #13 – 15, find the value 13) $Z \xrightarrow{70^\circ} (3x-5)^\circ$ D P	e of each variable. S	Show your work. 14) $3x^{\circ}$ 124°	▶	
15) $\angle A$ and $\angle B$ are suppler	mentary, find w°.	A 118°	w° B	

16) $\angle C$ and $\angle D$ are complementary. If $m \angle C = (6x - 1)^\circ$ and $m \angle D = (2x + 11)^\circ$, then find x. Show work!

Ch 1 Homework

DRHS

1.3 Worksheet, continued...

Geometry

17) $\angle E$ and $\angle F$ are supplementary. If $m \angle E = (4x + 5)^\circ$ and $m \angle F = (x - 40)^\circ$, then find x. Show work!

BONUS: Find the measure of $\angle E$ and $\angle F$, from #17 ... Show work!

For #18 and 19, find the measure of the requested angle(s). Show your work!

18) Find $m \angle 1$ and $m \angle TVW$ if ray \overrightarrow{VX} bisects $\angle TVW$.





20) Which items below are valid ways to name $\angle 6$? Select all that apply.

- A) ∠*G*
- B) $\angle HGF$
- C) ∠EGF
- D) ∠*FGH*
- E) $\angle HFG$
- F) $\angle FHG$







Ch 1 Review Worksheet continued on the next page....





33) What quadrant is the point (-2, 3) in?

