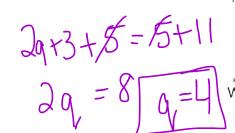
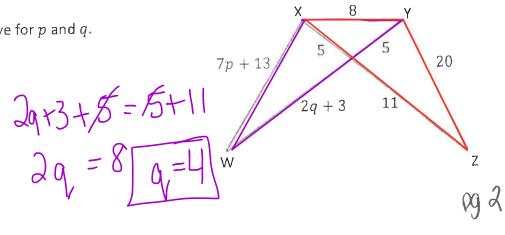
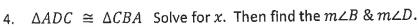
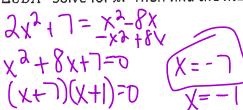
QUIZ DATE:	TEST DATE:	
Math 2 – Honors	Name	
Unit 6 –Triangles & Congruence	Date	Pa
Lesson 1 → Congruent Triangles & CPCTC		
Review: Similar triangles are the SAME SHAPE but similar, the corresponding angles must be congrue	DIFFERENT SIZES. In order for two trient and the corresponding sides must	angles to be be proportional .
 Congruent Triangles: Triangles that are the same Each triangle has three congruent If all SIX of the corresponding parts of two triangles 	and the same 5 angles are, the	ize
B F	Congruent Triangles:	L = DEF
A B	Corresponding Congruent Angles	···LAZLE
	Corresponding Congruent Sides:	AB = EF
> Definition of Congruent Triangles (CPCTC):		- -
 Two triangles are congruent if and only if their 	r corresponding parts are	
 CPCTC - Corresponding Parts of Congruent Tri 		_
1. Write a congruency statement for the two tria	<u></u>	G E
2. List ALL of the congruent parts if $\Delta EFG \cong \Delta$	HGF.	
3. $\Delta WXY \cong \Delta ZYX$ Solve for p and q .	X 8	Y

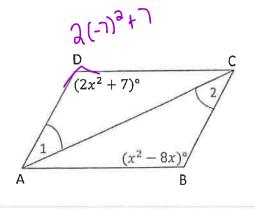
7p+13=20











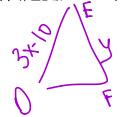
> Draw and label a diagram. Solve for the missing variable(s).

5. If
$$\triangle BAT \cong \triangle DOG$$
, and $m \angle B = 14^\circ$, $m \angle G = 29^\circ$ and $m \angle O = (10x + 7)^\circ$, find x and $m \angle O$.

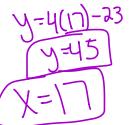
$$\frac{1}{3} = \frac{1}{3} = \frac{1}$$

6. If
$$\triangle COW \cong \triangle PIG$$
, and $CO = 25$, $CW = 18$, $IG = 23$ and $PG = 7x - 17$, find x and PG .

7. If
$$\triangle DEF \cong \triangle PQR$$
 and $DE = 3x - 10$, $QR = 4x - 23$, $PQ = 2x + 7$ and $EF = y$, find x and y .



$$y = 4x - 23$$
 $y = 4(17) - 2x + 7$ $y = 45$ $y = 40 - 2x + 10$



8. If
$$\triangle DEF \cong \triangle JKL$$
 and $DE = x^2 - 3x$, $KJ = 28$, $m \angle E = (8y^2 - 6y)^\circ$ and $m \angle K = 5^\circ$, find x and y .

$$X = 7 \quad X = -4$$

$$S = 5/4 \quad S = -1/2$$

Math 2 - Honors

Unit 6 -- Triangles & Congruence

Lesson 1 → Congruent Triangles & CPCTC HOMEWORK

Name_____Pd____

	ΔPQR	\cong	ΔABC
,	T		

Find	the	values	of.	X	and	y

•
0

1.
$$m \angle R = (5x + 70)^{\circ}$$
 $QR = 4y + 2$
 $m \angle C = (24x - 25)^{\circ}$ $BC = x + y$

2.
$$m \angle R = (90 - y)^{\circ}$$
 $PR = 3x + y - 1$
 $m \angle C = 13^{\circ}$ $AC = 32 - x$

Given:

3.
$$PQ = 5x - 31$$
 $AB = x + 1$ $BC = 9 - y$

4.
$$m \angle A = (15y - 3)^{\circ}$$
 $PQ = 11 - x$
 $m \angle P = (43 - x)^{\circ}$ $AB = 3y + 1$

Given:

5.
$$AB = 2x + y$$
 $PQ = 7$ $QR = 4x + y$ $BC = 11$

Given

6.
$$m \angle P = (x + 10)^{\circ}$$
 $m \angle Q = (3x)^{\circ}$ $m \angle A = (y + 20)^{\circ}$ $m \angle B = (x + 3y)^{\circ}$

Find the $m \angle P$ and the $m \angle Q$.