Name: _____

2.REV.2 - Lessons 2.4 - 2.10

Past due on: _____ Period: _____

Set up and solve an equation to find the value of the variables: *x*, *y*, and *z*.

1. $b \parallel c$



x = _____ *y* = _____ *z* = _____

- 3. In the figure, $m \angle 1 = (7x 12)^\circ$, $m \angle 3 =$ $(6x + 4)^{\circ}, \& m \angle 8 = (5x)^{\circ}.$
 - a. Find the value of *x* that shows that $p \parallel q$. Explain your reasoning.







b. Find the measure of each numbered angle:



- 4. The figure shows intersecting lines. Which choice shows vertical angles?
 - **a.** $\angle COE$ and $\angle BOD$
 - **b.** $\angle COE$ and $\angle EOD$
 - **c.** $\angle EOB$ and $\angle AOP$
 - **d.** $\angle AOC$ and $\angle COE$





TWO-COLUMN PROOF PROBLEMS:

13.Given: Diagram as shownProve: $\angle PQS$ is supp. to $\angle SQR$











22. Given: Diagram as shown $\angle 1 \cong \angle 4$

Prove: $\angle 2 \cong \angle 3$





EXTRA CREDIT:

Given:	$\overline{XY} \perp \overline{YW}$
	$\overline{AB} \perp \overline{BC}$
Find:	m∠DBC

