Geometry Review Quiz 20

Name _____

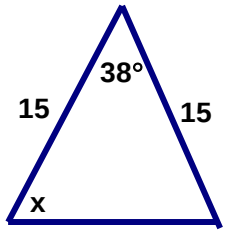

Figure 1

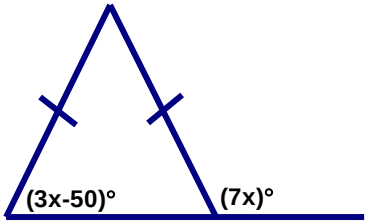

Figure 2

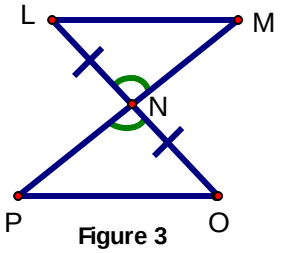

Figure 3

_____1. In figure 1 above, what is the value of x?
A. 15 B. 38 C. 71 D. 142

_____2. In figure 2 above, what is the value of x?
A. 40 B. 13 C. 23 D. None of the above

_____3. In figure 3 above, what additional information is needed to prove that ΔMNL is congruent to ΔPNO by ASA?
A. $\overline{MN} \cong \overline{PN}$ B. $\overline{ML} \cong \overline{PO}$ C. $\angle L \cong \angle O$ D. $\angle M \cong \angle P$

_____4. "If you like dogs, you like cats" is represented by p → q. What would be the symbolic representation of "if you don't like cats, you like dogs"?
A. ~p → q B. p → ~q C. ~q → p D. ~q → ~p

_____5. If $\Delta ABC \cong \Delta XYZ$, which of the following must be true?
A. $\angle A = \angle Z$ B. AC = XY C. XZ = BC D. None of the above

_____6. Which of the measurements below could be the measurements of a triangle?
A. 3, 4, 9 B. 2, 8, 10 C. 3, 7, 9 D. 6, 8, 16

_____7. In ΔABC, AB = 13 cm, BC = 12 cm, and AC = 16 cm. What angle is smallest?
A. $\angle A$ B. $\angle B$ C. $\angle C$ D. None of the above

_____8. In ΔABC $\angle A = 8x + 12$, $\angle B = 15x - 40$, and $\angle C = 10x + 10$.
Determine the longest side of ΔABC.
A. $\overline{AB}$ B. $\overline{AC}$ C. $\overline{CB}$ D. $\angle A$

_____9. What is the distance from (1, 5) to (7, 6)?
A. $\sqrt{37}$ B. $\sqrt{23}$ C. $\sqrt{24}$ D. None of the above

_____10. Line a and line b are perpendicular to each other. If line a has a slope of 4, what is the slope of line b?
A. 4 B. -4 C. $\frac{1}{4}$ D. $-\frac{1}{4}$