

Geometry Review Quiz 1-4 C

Put all answers to the multiple choice questions below. Use Capital Letters, please.

- ____ 1. If $\triangle ABC \cong \triangle XYZ$, $AB = 38$, $YZ = 28$, and $XY = 5x + 8$, what is the value of x ?
A. 4 B. 6 C. 20 D. 30
- ____ 2. What is the distance from $(1, 5)$ to $(7, 6)$?
A. $\sqrt{37}$ B. $\sqrt{23}$ C. $\sqrt{24}$ D. None of the above
- ____ 3. If $AB - XY = BC - XY$, then $AB = BC$
A. Transitive B. Subtraction C. Reflexive D. Addition
- ____ 4. Which equation would be perpendicular to the $y = -\frac{1}{7}x + 3$?
A. $y = -\frac{1}{7}x - 3$ B. $y = \frac{1}{7}x + 3$ C. $y = 7x - 5$ D. None of the above
- ____ 5. If three points all lie on a line, the points are said to be what?
A. segment bisectors B. coplanar
C. derivatives D. collinear
- ____ 6. If $\angle A$ and $\angle B$ are vertical angles with $\angle A = 2n + 60$ and $\angle B = 4n + 20$, what is the measurement of $\angle B$?
A. 10 B. 20 C. 80 D. 100
- ____ 7. If $\triangle ABC \cong \triangle XYZ$, which of the following must be true?
A. $\angle A = \angle Z$ B. $AC = XY$ C. $XZ = BC$ D. None of the above
- ____ 8. If $\triangle ABC$ is an isosceles triangle with $AC = BC$ and $\angle A = 40^\circ$, what is $\angle B$?
A. 40° B. 70° C. 80° D. None of the above
- ____ 9. If $\triangle ABC$ is an isosceles triangle with $AB = BC$, which statement must be true?
A. $\angle A = \angle B$ B. $\angle C = \angle B$ C. $AC = BC$ D. None of the above
- ____ 10. What is the value of x in the figure below?

