

Geometry Review Quiz 3

Name _____

Put all answers in the blank to the left of the question.

- _____ 1. If you walk 12 miles due East and 5 miles due South, how far from the starting point are you?
- _____ 2. What is the midpoint of a line that has endpoints at (6, 3) and (8, 5)?
- _____ 3. \overline{BX} bisects $\angle ABC$. If $\angle ABX = 6n + 4$, what is $\angle ABC$?
- _____ 4. Point A is at (4, 6) and B is at (10, 12). If B is the midpoint of \overline{AC} , what are the coordinates of C?
- _____ 5. If A = (1, 8) and B = (7, 10), what is AB?
Just give the answer as a square root (e.g. $\sqrt{10}$, $\sqrt{20}$, etc.).
- _____ 6. If two angles are **complementary angles** and one angle has a measurement of $6n + 40$ while the other has a measurement of $4n$, what is the value of n?
- _____ 7. If two angles are **vertical angles** and one angle has a measurement of $10n + 10$ while the other has a measurement of $8n + 60$, what is the value of n?
- _____ 8. If two angles are **a linear pair** and one angle has a measurement of $8n + 20$ while the other has a measurement of $2n + 30$, what is the value of n?
- _____ 9. If C is between X and Y with $CX = 2n + 8$ and $CY = 2n + 10$, what is XY?
- _____ 10. If B is between N and Y with $BN = 5n + 8$ and $NY = 7n + 5$, what is BY?