

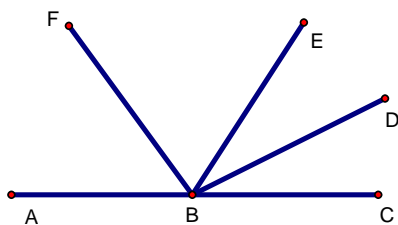
Geometry Chapter 1 Practice Test 1

Name _____

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

- _____ 1. What is the distance from (1, 2) to (3, 6)?
- _____ 2. If $\angle A$ and $\angle B$ are vertical angles with $\angle A = 2n + 60$ and $\angle B = 4n + 20$, what is the measurement of $\angle B$?
- _____ 3. Which of these statements is false?
A. $\overline{AB} = \overline{BA}$ B. $\overrightarrow{AB} = \overrightarrow{BA}$ C. $\overleftrightarrow{AB} = \overleftrightarrow{BA}$
- _____ 4. If C is between X and Y with $YC = 6$ and $XY = 10$, what is XC ?
- _____ 5. \overrightarrow{BX} bisects $\angle ABC$. If $\angle ABX = 30^\circ$, what is $\angle ABC$?
- _____ 6. If D is between A and B with $AB = 5n$ and $BD = n$, what is AD ?
- _____ 7. If $\angle A$ and $\angle B$ are complementary angles with $\angle A = 2n + 6$ and $\angle B = 3n + 4$, what is the measurement of $\angle B$?
- _____ 8. If D is between A and B with $AB = 4n + 10$ and $AD = n - 2$, what is BD ?
- _____ 9. If V is between R and Y with $RY = 30$ and $VY = n + 10$, what is RV ?
- _____ 10. What is the distance from (-1, 2) to (3, -1)?
- _____ 11. What is the midpoint of a line that has endpoints at (2, 3) and (4, 7)?
- _____ 12. If $\angle A$ and $\angle B$ are supplementary angles with $\angle A = 70^\circ$, what is the measurement of $\angle B$?
- _____ 13. What is the midpoint of a line that has endpoints at (-2, -3) and (4, 7)?
- _____ 14. If X is the midpoint of \overline{CN} and $CX = 6n + 2$, what is CN ?
- _____ 15. If X is the midpoint of \overline{AB} and $AB = 8n + 6$, what is XB ?
- _____ 16. If you walk 5 miles due East and then walk 12 miles due North, how far from the starting point are you?
- _____ 17. Think about a square whose side length is 16 cm.
What is the length of the diagonal? (Draw a picture to help you.)
- _____ 18. What is the distance from (-3, 4) to (0, 14)?
- _____ 19. If three points all lie on a line, the points are said to be what?
- _____ 20. If D is between A and B with $AD = 12n + 1$ and $DB = n + 2$, what is AB ?

Consider the picture below. \overrightarrow{BD} bisects $\angle EBC$, \overrightarrow{BE} bisects $\angle FBC$, and $\angle ABC$ is a straight line.



- _____ 21. If $\angle EBC = 6n - 8$, what is $\angle EBD$?
- _____ 22. If $\angle EBD = 4n + 16$ and $\angle DBC = 6n + 10$, what is the numerical value of $\angle EBC$?
- _____ 23. If $\angle FBE = 80^\circ$, what is the measurement of $\angle EBD$?
- _____ 24. If $\angle EBC = 2n + 6$ and $\angle FBE = 4n - 54$, what is the numerical value of $\angle DBC$.
- _____ 25. Point A is at (1, 10) and B is at (4, 1). If B is the midpoint of \overline{AC} , what are the coordinates of C?
- _____ 26. If $\angle A$ and $\angle B$ are complementary angles with $\angle A = 80^\circ$, what is the measurement of $\angle B$?
- _____ 27. If A = (7, 15) and B = (5, 10), what is AB?
- _____ 28. If C is between X and Y with $CX = 8n - 4$ and $CY = n + 10$, what is XY?
- _____ 29. If B is between N and Y with $BN = 2n - 1$ and $NY = 6n + 5$, what is BY?
- _____ 30. If $\angle A$ and $\angle B$ are a linear pair with $\angle A = n + 40$ and $\angle B = 9n + 20$, what is the measurement of $\angle B$?

Find the value of the missing side in each right triangle below. Round answers to nearest tenth.

