## Geometry Chapter 1 Practice Test 2 (2019)

Name $\qquad$
Put all answers in the blank to the left of the question. Round all answers to the tenths spot.

1. What is the distance from $(5,2)$ to $(1,9)$ ?
2. If $\angle 1$ and $\angle 2$ are vertical angles with $\angle 1=8 n+7$ and $\angle 2=6 \mathrm{n}+19$, what is the measurement of $\angle 2$ ?
3. If A is the midpoint of $\overline{C T}$ with $\mathrm{C}=(3,4)$ and $\mathrm{T}=(7,14)$, what is A ?
4. What is the distance between $(2,4)$ and $(10,18)$ ?
5. $\overrightarrow{B X}$ bisects $\angle A B C$. If $\angle A B C=50^{\circ}$, what is $\angle A B X$ ?
6. On $\overline{A B}, \mathrm{~F}$ is the midpoint. If $\mathrm{A}=(3,4)$ and $\mathrm{F}=(5,1)$, where is B ?
7. If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1=2 \mathrm{n}+11$ and $\angle 2=3 \mathrm{n}+9$, what is the measurement of $\angle 2$ ?
8. On $\overline{A B}, \mathrm{C}$ is the midpoint. If $\mathrm{A}=(5,1)$ and $\mathrm{C}=(6,6)$, where is B ?
9. On $\overline{T D}, \mathrm{M}$ is the midpoint. If $\mathrm{T}=(12,4)$ and $\mathrm{D}=(6,8)$, where is M ?
10. What is the distance from $(-1,-2)$ to $(-3,-1)$ ?
11. What is the midpoint of a line that has endpoints at $(12,30)$ and $(4,6)$ ?
12. If $\angle 1$ and $\angle 2$ are supplementary angles with $\angle 1=10^{\circ}$, what is the measurement of $\angle 2$ ?
13. What is the midpoint of a line that has endpoints at $(-2,8)$ and $(-4,-6)$ ?
14. If X is the midpoint of $\overline{C N}$ and $\mathrm{CX}=6 \mathrm{n}+2$, what is CN ?
15. If X is the midpoint of $\overline{A B}$ and $\mathrm{AB}=6 \mathrm{n}+14$, what is XB ?
16. If you walk 9 miles due East and then walk 3 miles due North, how far from the starting point are you?
17. Think about a square whose side length is 12 cm .

What is the length of the diagonal? (Draw a picture to help you.)
18. What is the distance from $(-3,4)$ to $(4,8)$ ?
19. If three points all lie on a plane, the points are said to be what?
20. If the sides of a triangle are 6,9 , and 12 , is it a right triangle?

Consider the picture below. $\overrightarrow{B D}$ bisects $\angle E B C, \overrightarrow{B E}$ bisects $\angle F B C$, and $\angle A B C$ is a straight line.

21. If $\angle E B C=40^{\circ}$, what is $\angle E B D$ ?
$\qquad$ 22. If $\angle E B D=12^{\circ}$, what is $\angle E B C$ ?
$\qquad$ 23. If $\angle F B E=60^{\circ}$, what is $\angle E B D$ ?
$\qquad$ 24. If $\angle F B E=40^{\circ}$, what is $\angle D B C$ ?
25. Point $A$ is at $(2,1)$ and $B$ is at $(4,-1)$. If $B$ is the midpoint of $\overline{A C}$, what are the coordinates of C ?
26. If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1=50^{\circ}$, what is the measurement of $\angle 2$ ?
27. If $\mathrm{A}=(2,17)$ and $\mathrm{B}=(8,10)$, what is AB ?
28. Is a triangle with side lengths of 65,33 , and 56 a right triangle?
$\qquad$ 29. If $\mathrm{A}=(2,-8)$ and $\mathrm{B}=(9,8)$, what is AB ?
30. If $\angle 1$ and $\angle 2$ are a linear pair with $\angle 1=\mathrm{n}+80$ and $\angle 2=9 \mathrm{n}-20$, what is the measurement of $\angle 2$ ?

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

$x=$ $\qquad$
28.

$\mathrm{X}=$ $\qquad$

$\mathbf{x}=$ $\qquad$
30.

$\mathbf{x}=$ $\qquad$

