$$
\begin{aligned}
& \text { 9-17-13 } \\
& 1^{54} \text { Geo } \\
& \text { Ch } 1 \text { Practice Test } 2 \text { Questions } \\
& \text { (18) } \overrightarrow{B X} \text { bisects } \angle A B C \text {. } \\
& \text { If } \angle A B C=6 n+2 \text {, } \\
& \text { sher is } \angle A B X \text { ? } \\
& \text { (14) If } x \text { is midpoint of } \overline{C N} \\
& \text { and } C X=8 n+20 \text {, whet is CN? } \\
& 16 n+40 \\
& \text { (9) If } B \text { is between } A \text { and } C \\
& \text { with } A C=6 n \text { and } B C=n+1 \text {, } \\
& \text { what is } A B \text { ? } \\
& \text { (29) } \\
& \text { a } 8 \\
& a^{2}+b^{2}=c^{2} \\
& 8^{2}+6^{2}=c^{2} \\
& \begin{array}{c}
64+36=c^{2} \\
\sqrt{100}=\sqrt{c^{2}}
\end{array} \\
& 10=c
\end{aligned}
$$

Test question
What does each symbol below mean?
a.) $\therefore$ Therefore
b.) $\cong$ congruent
c.) $\approx$ approximately
(2) $\angle A$ and $\angle B$ are complementary angles with $\angle A=2 n+10$ and $\angle B=3 n+4$. What is $m \angle B$ ?

$$
\begin{aligned}
& \angle A+\angle B=90^{\circ} \\
& \psi \\
& 2 n+10+3 n+4=90^{\circ} \\
& 5 n+4=90^{\circ} \\
& \frac{-14}{}-14 \\
& \frac{5 n}{5}=\frac{76}{5} \\
& n=15.2 \\
& \therefore \angle B= 3 n+4 \\
&= 3(15.2)+4 \\
&= 45.6+4 \\
&=49.6^{\circ}
\end{aligned}
$$

(3) What is the midpoint of a line that has end points at $(-2,-1)$ and (4,7)?

$$
\begin{gathered}
\text { midpoint }=\left(\frac{-2+4}{2}, \frac{-1+7}{2}\right) \\
(1,3)
\end{gathered}
$$

(4) What is the distsace from $(1,2)$ to $(3,1)$ ?

$$
\begin{aligned}
& D= \sqrt{\Delta x^{2}+\Delta y^{2}} \\
& \sqrt{\left(x_{2}-x_{1}\right)^{2}+\left(y_{2}-y_{1}\right)^{2}} \\
& \sqrt{2^{2}+1^{2}} \\
& \sqrt{4+1} \\
& \approx 2.2
\end{aligned}
$$

(5) If $A=(5,1)_{a+d} B=(2,10)$,
what is $A B$ ?

$$
\begin{aligned}
D & =\sqrt{\Delta x^{2}+\Delta y^{2}} \\
& =\sqrt{3^{2}+9^{2}} \\
& =\sqrt{9+81} \\
& =\sqrt{90} \\
& \approx 9.5
\end{aligned}
$$

(6) What is the diagonal length of a square with side length of 15 cm ?


$$
\begin{aligned}
a^{2}+b^{2} & =c^{2} \\
15^{2}+15^{2} & =c^{2} \\
225+225 & =c^{2} \\
\sqrt{450} & =\sqrt{c^{2}} \\
21.2 & \approx C
\end{aligned}
$$

