9-13-13
1st Geo

Ch. 1 Review

① Which statement is false?

A. $\overleftrightarrow{AB} = \overleftrightarrow{BA}$ 

B. $\overline{AB} = \overline{BA}$ 

C. $\overrightarrow{AB} = \overrightarrow{BA}$ 

② If $\angle A$ and $\angle B$ are complementary angles with $\angle A = 2n+6$ and $\angle B = 3n+4$, what is the measurement of $\angle B$?

$\angle A + \angle B = 90^\circ$

$2n+6 + 3n+4 = 90^\circ$

$5n + 10 = 90^\circ$

$-10 \quad -10$

$\frac{5n}{5} = \frac{80}{5}$

$n = 16$

$\angle B = 3n+4$

$3(16)+4$

$48+4$

52°

③ What is the distance from $(-3,4)$ to $(0,14)$?

$D = \sqrt{\Delta x^2 + \Delta y^2}$

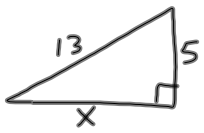
$= \sqrt{3^2 + 10^2}$

$= \sqrt{9+100}$

$= \sqrt{109}$

≈ 10.4

④



$a^2+b^2=c^2$

$x^2+5^2=13^2$

$x^2+25=169$

$-25 \quad -25$

$\sqrt{x^2}=\sqrt{144}$

$x=12$

⑤ If ∠A and ∠B are vertical ∠'s with ∠A = 2n+60 and ∠B = 4n+20, what is the measurement of ∠B?

$\angle A=\angle B$

$2n+60=4n+20$

$-2n \quad -2n$

$60=2n+20$

$-20 \quad -20$

$\frac{40}{2}=\frac{2n}{2}$

$20=n$

$\angle B=4n+20$

$4(20)+20$

$80+20$

100

⑥ What is the midpoint of a line that has endpoints at (2,3) and (4,7)?

$\left(\frac{2+4}{2}, \frac{3+7}{2}\right)$

$\left(\frac{6}{2}, \frac{10}{2}\right)$

$(3,5)$

⑦ If D is between A and B with AB = 4n+10 and AD = n-2, what is BD?

$AD+DB=AB$

$(n-2)+BD=4n+10$

$-n \quad +2$

$BD=3n+12$