Geometry Right Triangle Quizzie – 15 pts

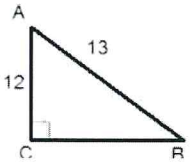
Good luck to _____

1) Find the length AB for A(5,-12) and B(-3,4). Use distance formula. Show work.

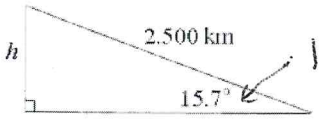
2) Give the center (h,k) and the radius r for the circle: $x^2 + (y - 5)^2 = 81$

3) Write the standard form equation of the circle with center (-8,15) and radius of 17 units.

4) Write the sin B and cos A for ΔABC's acute angles.

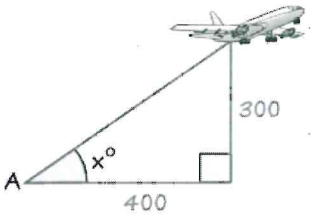


5) Find length of h using trig ratio equation. Write a second step to the equation to show how you solved it. Write the solution to the nearest whole number with correct units.



15.7°

6) Find the angle of elevation for the following sketch. Write equation and rewrite in correct form for the calculator. Answer to the nearest whole degree.



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Good luck to _____

1) Find the length AB for A(5,-12) and B(-3,4). Use distance formula. Show work.

2 pts $\sqrt{8^2+16^2} = \sqrt{64+256}$

$= \sqrt{320}$

≈ 17.9 units

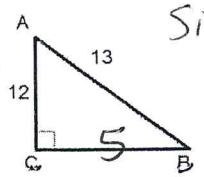
2) Give the center (h,k) and the radius r for the circle: $x^2 + (y - 5)^2 = 81$

(0,5) center $r=9$ 2 pts

3) Write the standard form equation of the circle with center (-8,15) and radius of 17 units. 17^2 OR

2 pts $(x+8)^2+(y-15)^2=289$

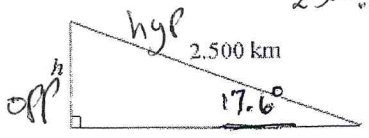
4) Write the sin B and cos A for ΔABC's acute angles.



$\sin B = \frac{12}{13}$ 2 pts

$\cos A = \frac{12}{13}$

5) Find length of h using trig ratio equation. Write a second step to the equation to show how you solved it. Write the solution to the nearest whole number with correct units.



$2500 \cdot \sin 17.6° = \frac{h}{2500} \cdot 2500$

$h \approx 766$ km

4 pts

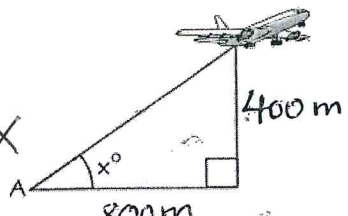
OR .766 if you thought it was 2.500

6) Find the angle of elevation for the following sketch. Write equation and rewrite in correct form for the calculator. Answer to the nearest whole degree.

$\tan x = \frac{400}{800}$

$\tan^{-1}\left(\frac{4}{8}\right) = x$

$x \approx 27°$



3 pts.