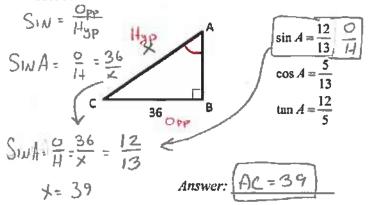
Geometry 2: Trigonometry Unit Review

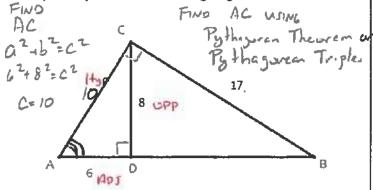
G.SRT.6 Learning Target: Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute ratios.

SOH CAH TOA

1) Given the following trig ratios, what is the length of AC?



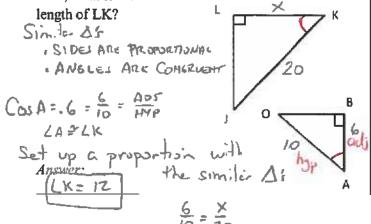
2). Complete the following trig ratios for $\triangle ACB$



$$\sin A = \frac{Q}{H} = \frac{8}{10} \quad \cos A = \frac{A}{H} = \frac{6}{10} \quad \tan A = \frac{Q}{A} = \frac{8}{6}$$

$$S_{1N}A = \frac{9}{5} \quad C_{0S}A = \frac{3}{5} \quad T_{AN}A = \frac{9}{3}$$

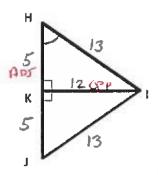
3) Given $\triangle ABO \sim \triangle KLJ$. If the cos A = 0.6 and JK = 20, what is the



X= 12

Name ______ Period Date

4) Darren started with a 5-12-13 right triangle ($\triangle HKI$) and then reflected it horizontally to get a congruent triangle, $\triangle JKI$. The length of \overline{HK} is 5 cm.



Then, Darren claimed the following:

- Since HK is 5 cm, then JK is also 5 cm. (OK) and KI is 12 cm.
- Using the Pythagorean Theorem, the length of HI and JI is 13 cm.
- The length of HJ is 10 cm.

(013)

- Therefore, $\tan (\angle IHK) = \frac{5}{12} = 0.42$ (rounded) $\tan (\angle H) = \frac{Q}{Q} = \frac{12}{5}$

Sadly, Darren went wrong somewhere in his assumptions. Find his mistake and correct it.

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