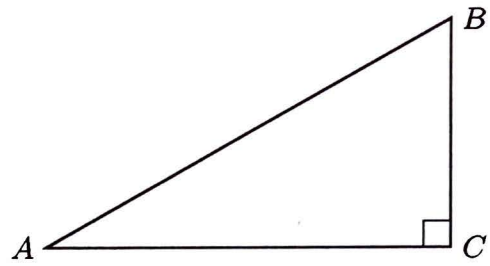
BECA / Dr. Huson / Geometry 10th Grade
Unit 11: Algebra II introduction
4 May 2020

Name: Solutions

11.4 Homework: Cosine and sine trigonometry ratios

Identify each given side of the triangle

1. $\triangle ABC$ is shown with $m\angle C = 90°$ and the triangle's sides are $\overline{AB}$, $\overline{BC}$, and $\overline{AC}$.

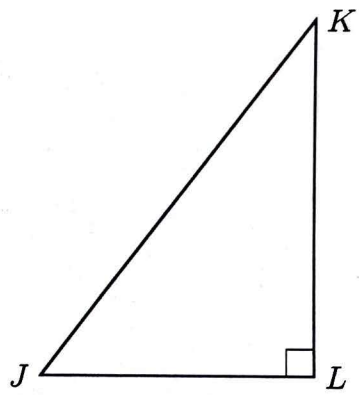


(a) The hypotenuse. $\overline{AB}$

(b) The side adjacent to $\angle A$. $\overline{AC}$

(c) The side opposite to $\angle A$. $\overline{BC}$

2. $\triangle JKL$ is shown with $\overline{JL} \perp \overline{KL}$



(a) The side opposite to $\angle K$. $\overline{JL}$

(b) The side adjacent to $\angle J$. $\overline{JL}$

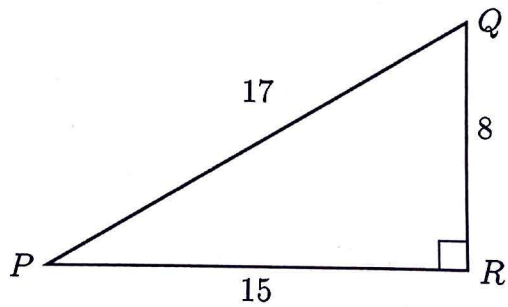
(c) The hypotenuse. $\overline{JK}$

(d) The side adjacent to $\angle K$. $\overline{KL}$

(e) The side opposite to $\angle J$. $\overline{KL}$

Write down each value as a ratio (fraction)

3. A right $\triangle PQR$ is shown with side lengths 8, 15, and 17, as marked.



(a) $\tan P = \frac{8}{15}$

(b) $\cos P = \frac{15}{17}$

(c) $\sin Q = \frac{8}{17}$