

7 May 2020

11.5 Problem set: Inverse trigonometry ratios**Identify each true statement**

1. A right $\triangle ABC$ is shown with side lengths 6, 8, and 10, as marked.

☐ (a) $\tan A = \frac{BC}{AC}$

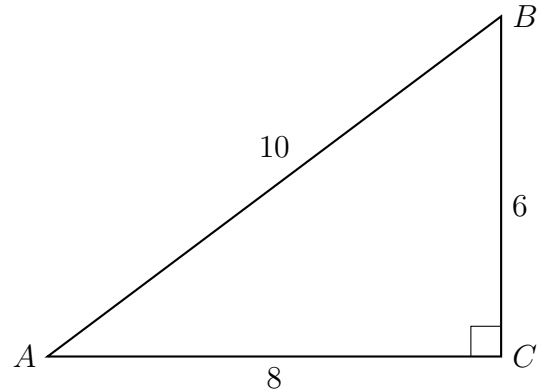
☐ (b) $\cos A = \frac{6}{10}$

☐ (c) $\sin B = 0.8$

☐ (d) $\tan A = 0.75$

☐ (e) $\cos B = \frac{AC}{BC}$

☐ (f) $\sin A > \cos A$

**Finding trigonometric values using a calculator**

2. Calculate and round to the *nearest thousandth*.

(a) $\sin 35^\circ =$

(b) $7 \times \cos 48^\circ =$

3. Find θ and round to the *nearest whole degree*.

(a) $\theta = \cos^{-1} 0.810$

(c) $\tan \theta = 0.153$

(b) $\theta = \sin^{-1} \left(\frac{3}{4} \right)$

(d) $\cos \theta = \left(\frac{1}{\sqrt{2}} \right)$