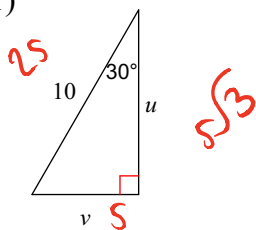


Topic 8 Mastery Check

Date _____ Period _____

Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



$$v = 5$$

$$u = 5\sqrt{3}$$

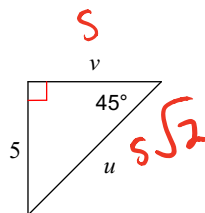
A) $u = 5\sqrt{3}$, $v = 5\sqrt{2}$

B) $u = 5\sqrt{3}$, $v = 5$

C) $u = \frac{5\sqrt{3}}{2}$, $v = 5\sqrt{2}$

D) $u = 5\sqrt{2}$, $v = 5\sqrt{3}$

2)



$$v = 5$$

$$u = 5\sqrt{2}$$

A) $u = 5\sqrt{2}$, $v = 5$

B) $u = 10$, $v = 5\sqrt{6}$

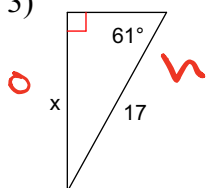
C) $u = 5\sqrt{6}$, $v = 5$

D) $u = 10$, $v = 5\sqrt{2}$

SOH CAH TOA

Find the missing side. Round to the nearest tenth.

3)



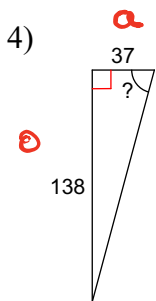
$$17 \sin 61^\circ = \frac{x}{17} \cdot 17$$

$$17 \sin 61^\circ = x$$

$$x = 14.9$$

Find the measure of the indicated angle to the nearest degree.

4)



$$\tan^{-1}\left(\frac{138}{37}\right) = ?$$

$$? = 75^\circ$$