

Name _____

Date _____

1) Use a calculator to find the indicated trigonometric ratio's value. Round to three decimal places.

make sure you are in degree mode

A) $\sin 45 = .707$

B) $\cos 50 = .643$

C) $\tan 60 = 1.732$

D) $\sin 28 = .469$

E) $\cos 40 = .766$

F) $\tan 45 = 1$

2) Use the trigonometric functions to solve for the given variable. Show all work. Round your **final** answers to the nearest hundredth, if needed.

A) $\sin 60 = \frac{x}{30}$ 25.98

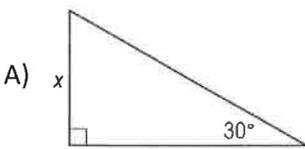
B) $\cos 45 = \frac{5}{x}$ 7.07

C) $\tan 30 = \frac{x}{9}$ 5.20

D) $\cos 60 = \frac{20}{x}$ 40

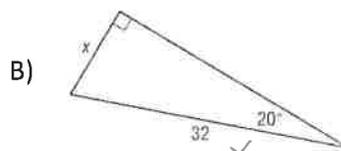
E) $\sin 59 = \frac{x}{5.8}$ 4.97

F) $\tan 79 = \frac{9.8}{x}$ 1.90

3) Find the measurement of the segments labelled with variables. Round your **final** answers to the nearest hundredth, if needed.

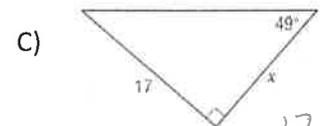
$$\tan 30 = \frac{x}{7}$$

4.04



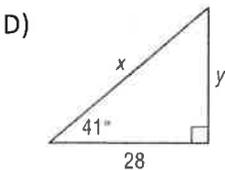
$$\sin 20 = \frac{x}{32}$$

10.94



$$\tan 49 = \frac{17}{x}$$

14.78

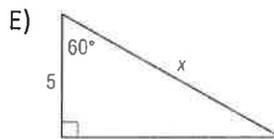


$$\cos 41 = \frac{28}{x}$$

x = 37.10

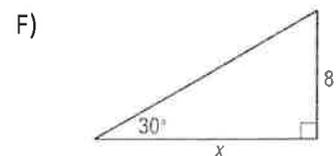
$$\tan 41 = \frac{y}{28}$$

y = 24.34



$$\cos 60 = \frac{5}{x}$$

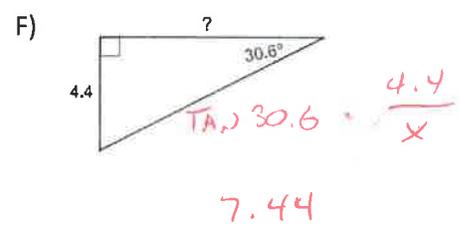
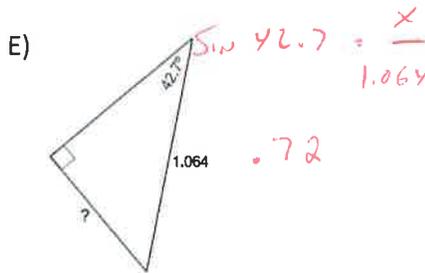
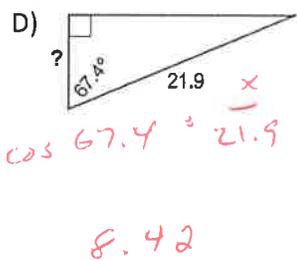
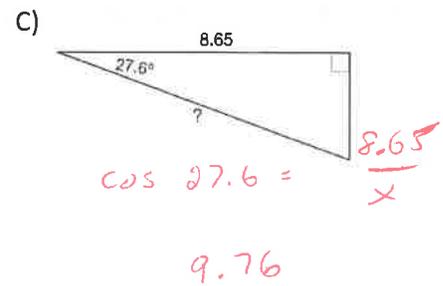
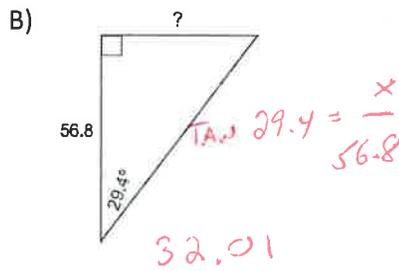
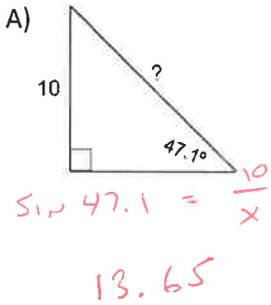
10



$$\tan 30 = \frac{8}{x}$$

13.86

4) Use trigonometric ratios to solve for the missing side. Round your **final** answers to the nearest hundredth, if needed.



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