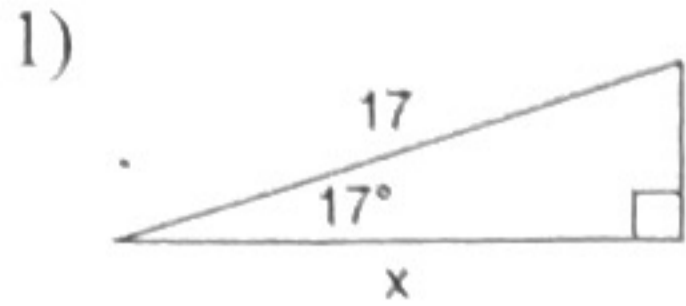


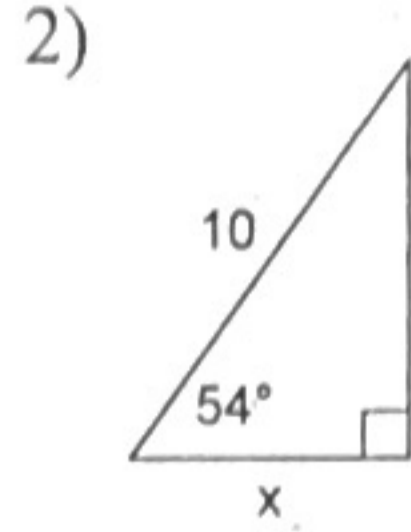
Worksheet E

Find the missing side. Round to the nearest tenth.



$$\cos 17 = \frac{x}{17}$$

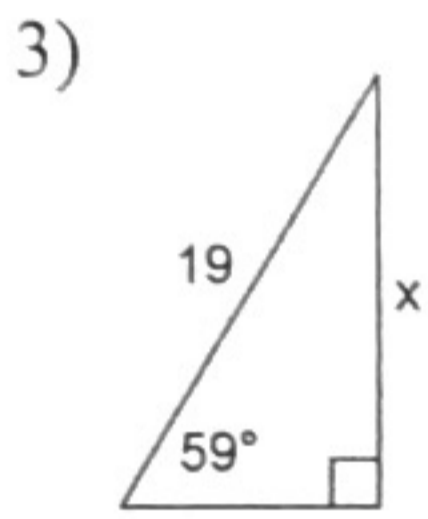
$$x = 16.26$$



$$\cos 54 = \frac{x}{10}$$

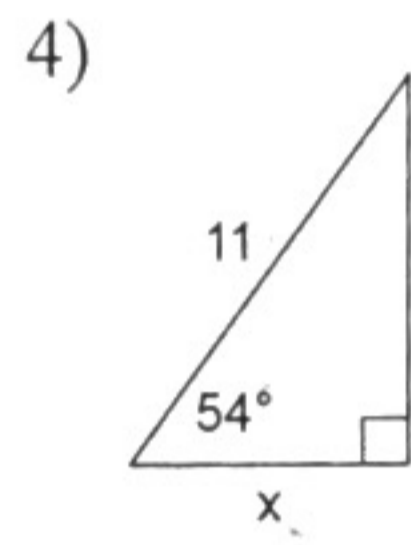
$$\frac{10}{1} \cdot 0.5878 = \frac{x}{10} \cdot \frac{10}{1}$$

$$x = 5.88$$



$$\sin 59 = \frac{x}{19}$$

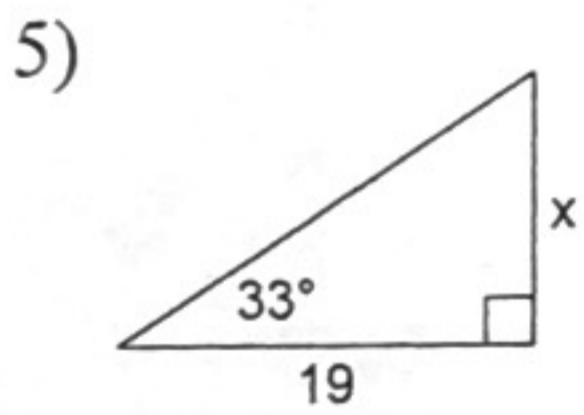
$$x = 16.29$$



$$\cos 54 = \frac{x}{11}$$

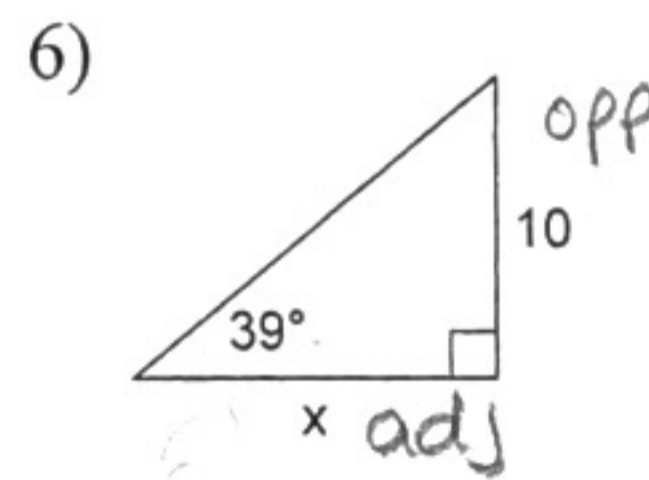
$$\frac{11}{1} \cdot 0.5878 = \frac{x}{11} \cdot \frac{11}{1}$$

$$x = 6.47$$



$$\tan 33 = \frac{x}{19}$$

$$x = 12.34$$

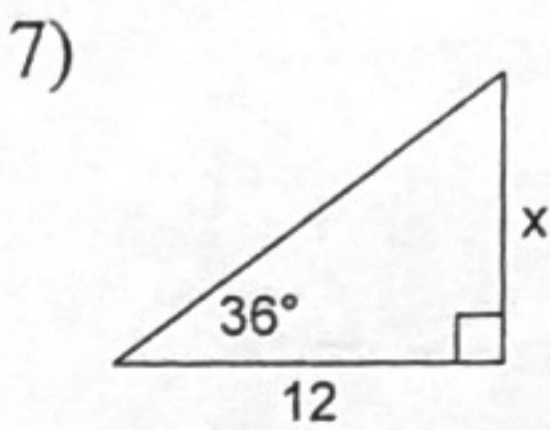


$$\tan 39 = \frac{10}{x}$$

$$\frac{x}{1} \cdot 0.8098 = \frac{10}{x} \cdot \frac{x}{1}$$

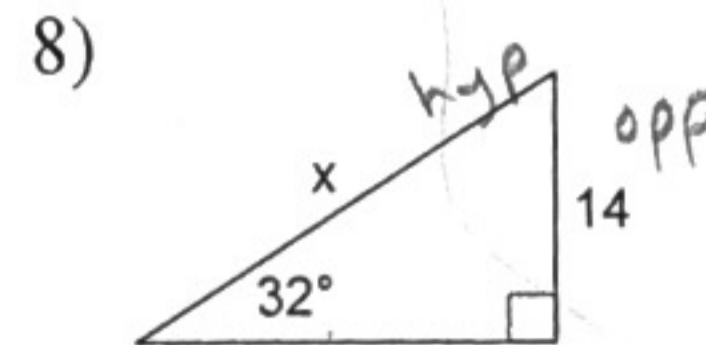
$$\begin{array}{r} 0.8098x = 10 \\ \hline 0.8098 \quad 0.8098 \end{array}$$

$$x = 12.35$$



$$\tan 36 = \frac{x}{12}$$

$$x = 8.72$$



$$\sin 32 = \frac{14}{x}$$

$$\frac{x}{1} \cdot 0.5299 = \frac{14}{x} \cdot \frac{x}{1}$$

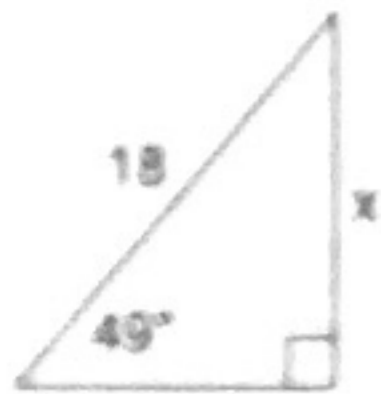
$$0.5299x = 14$$

$$\begin{array}{r} 0.5299x = 14 \\ \hline 0.5299 \quad 0.5299 \end{array}$$

$$x = 26.42$$

- Steps
- ① choose trig function
  - ② write equation
  - ③ calculate trig
  - ④ solve

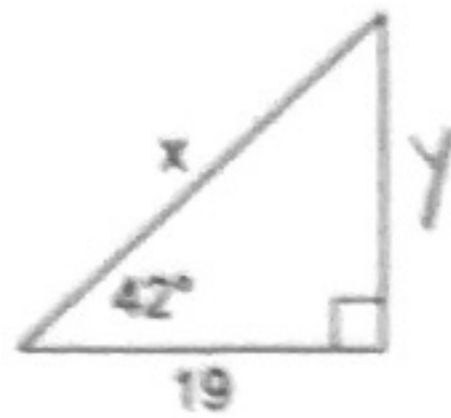
9)



$$\sin 49 = \frac{x}{18}$$

$$x = 13.59$$

10)



$$\cos 42 = \frac{19}{x}$$

$$\frac{x}{1} \cdot 0.743 = \frac{19}{x} \cdot \frac{x}{1}$$

$$x = 25.57$$

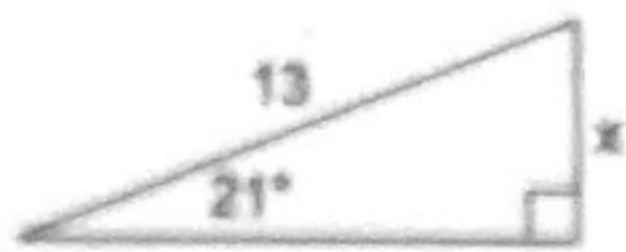
y

$$\tan 42 = \frac{y}{19}$$

$$0.900 = \frac{y}{19}$$

$$y = 17.11$$

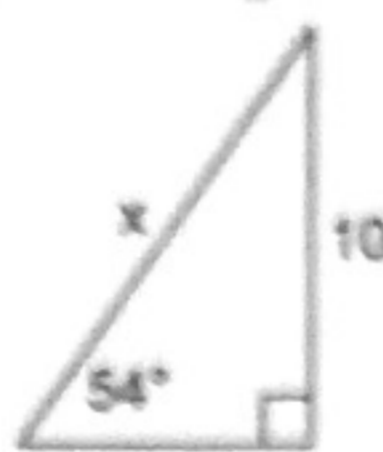
11)



$$\sin 21 = \frac{13}{x}$$

$$x = 4.66$$

12)



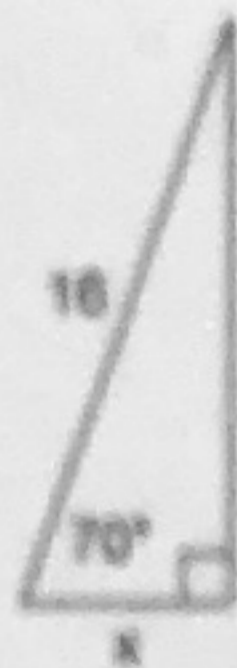
$$\sin 54 = \frac{10}{x}$$

$$\frac{x}{1} \cdot 0.809 = \frac{10}{x} \cdot \frac{x}{1}$$

$$\frac{0.809x}{0.809} = \frac{10}{0.809}$$

$$x = 12.36$$

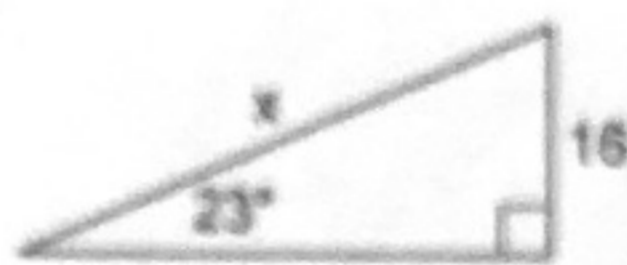
13)



$$\cos 70 = \frac{x}{16}$$

$$x = 5.47$$

14)



$$\sin 23 = \frac{16}{x}$$

$$\frac{x}{1} \cdot 0.3907 = \frac{16}{x} \cdot \frac{x}{1}$$

$$\frac{0.3907x}{0.3907} = \frac{16}{0.3907}$$

$$x = 40.95$$

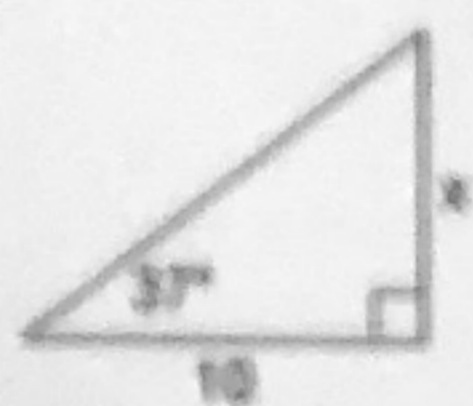
15)



$$\sin 29 = \frac{13}{x}$$

$$x = 26.82$$

16)



$$\tan 37 = \frac{x}{10}$$

$$x = 7.54$$