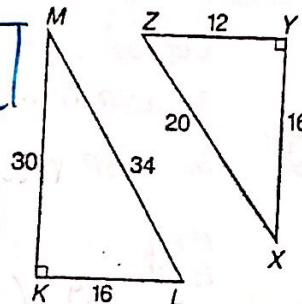


SOH CAH TOA GEOMETRY CP SPRING REVIEW

Find the indicated trigonometric ratio as a fraction and as a decimal rounded to the nearest ten-thousandth.

1. $\sin M = \frac{16}{34} = \frac{8}{17} = .4706$ 2. $\cos Z = \frac{12}{20} = \frac{3}{5} = .6000$

3. $\tan L = \frac{30}{16} = \frac{15}{8} = 1.8750$ 4. $\sin X = \frac{12}{20} = \frac{3}{5} = .6000$



Find the value of each ratio to the nearest ten-thousandth.

7. $\sin 12^\circ = 0.2079$ 8. $\cos 32^\circ = 0.8480$

Solve each problem. Round measures of segments to the nearest hundredth and measures of angles to the nearest degree.

1. From the top of a tower, the angle of depression to a stake on the ground is 72° . The top of the tower is 80 feet above ground. How far is the stake from the foot of the tower?

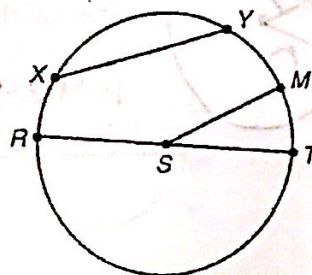
$\tan 18 = \frac{x}{80}$ $\boxed{25.99 \text{ ft}}$

2. A tree 40 feet high casts a shadow 58 feet long. Find the measure of the angle of elevation of the sun.

$\tan x = \frac{58}{40}$ $\tan^{-1}(1.45) = 55^\circ$ $\boxed{35^\circ}$

Refer to $\odot S$ for Exercises 1-6.

- Name the center of $\odot S$. point S
- Name three radii of $\odot S$. \overline{SR} , \overline{SM} , \overline{ST}
- Name a diameter. \overline{RT}
- Name a chord. \overline{XY} and \overline{RT}
- If $RT = 8.2$, find SM . $8.2 \div 2 = \boxed{4.1}$
- Is $\overline{SR} \cong \overline{SM}$? Explain.
yes, they are both radii



In Exercises 7-10, the radius, diameter, or circumference of a circle is given. Find the other measures to the nearest tenth.

7. $r = 7$, $d = \frac{?}{14}$, $C = \frac{?}{44}$

8. $d = 32.4$, $r = \frac{?}{16.2}$, $C = \frac{?}{101.8}$

9. $C = 116.5$, $d = \frac{?}{37.1}$, $r = \frac{?}{18.6}$