

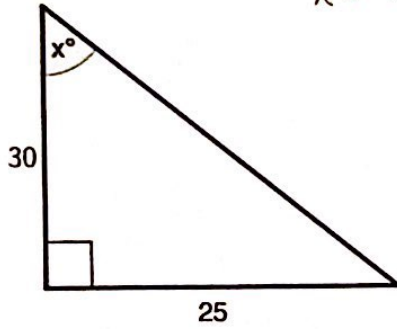
Name: Key Period: \_\_\_\_\_

## INVERSE TRIGONOMETRY PRACTICE

Directions: Solve for the variables in the right triangles below. Show all your work.

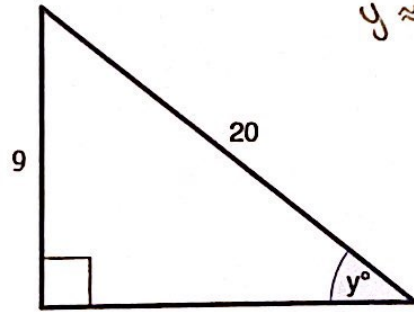
1.

$$\tan^{-1}\left(\frac{25}{30}\right) = x$$
$$x \approx 39.8^\circ$$



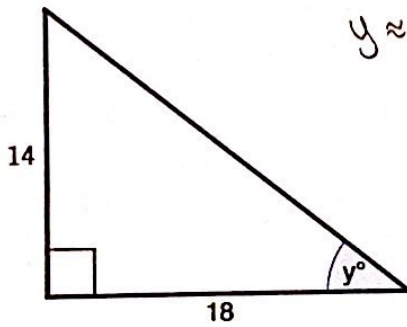
2.

$$\sin^{-1}\left(\frac{9}{20}\right) = y$$
$$y \approx 26.7^\circ$$



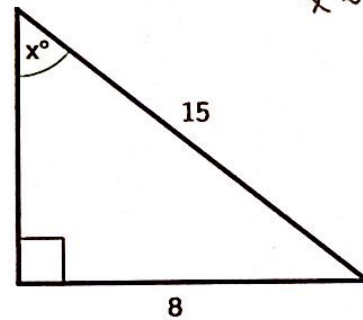
3.

$$\tan^{-1}\left(\frac{14}{18}\right) = y$$
$$y \approx 37.9^\circ$$



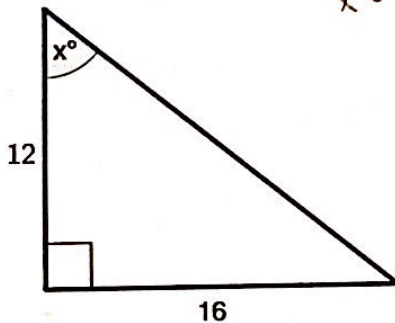
4.

$$\sin^{-1}\left(\frac{8}{15}\right) = x$$
$$x \approx 32.2^\circ$$



5.

$$\tan^{-1}\left(\frac{16}{12}\right) = x$$
$$x \approx 53.1^\circ$$



6.

$$\cos^{-1}\left(\frac{19}{28}\right) = y$$
$$y \approx 47.3^\circ$$

