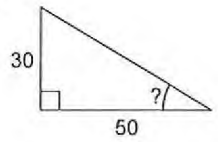
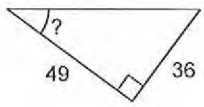
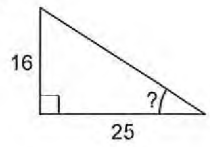
#14 Name_____

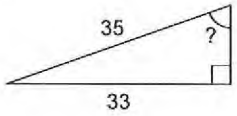
Find Missing Angle Practice

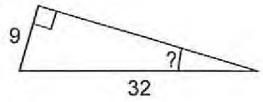
Find the measure of the indicated angle to the nearest degree.

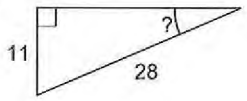
1) 

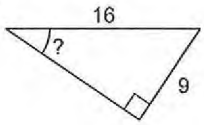
2) 

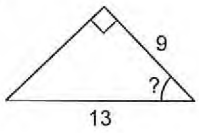
3) 

4) 

5) 

6) 

7) 

8) 

9) Nate built a skateboard ramp that covers a horizontal distance of 10 ft. The ramp rises a total of 3.5 ft. What angle does the ramp make with the ground?

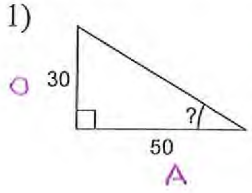
10) You lean a 30 ft ladder against a house. The base of the ladder is 6 ft away from the wall. What angle does the ladder make with the ground?

#14

Name Key

Find Missing Angle Practice

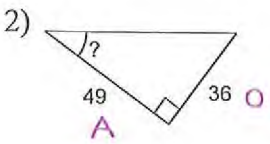
Find the measure of the indicated angle to the nearest degree.

1) 

$\tan ? = \frac{30}{50}$

$? = \tan^{-1}\left(\frac{30}{50}\right)$

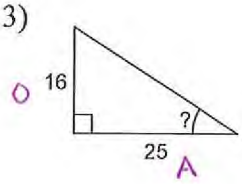
$= 31°$

2) 

$\tan ? = \frac{36}{49}$

$? = \tan^{-1}\left(\frac{36}{49}\right)$

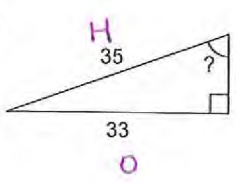
$= 36°$

3) 

$\tan ? = \frac{16}{25}$

$? = \tan^{-1}\left(\frac{16}{25}\right)$

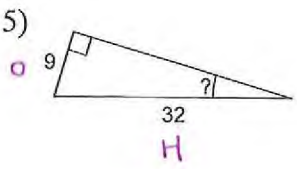
$= 33°$

4) 

$\sin ? = \frac{33}{35}$

$? = \sin^{-1}\left(\frac{33}{35}\right)$

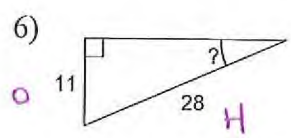
$= 71°$

5) 

$\sin ? = \frac{9}{32}$

$? = \sin^{-1}\left(\frac{9}{32}\right)$

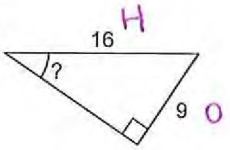
$= 16°$

6) 

$\sin ? = \frac{11}{28}$

$? = \sin^{-1}\left(\frac{11}{28}\right)$

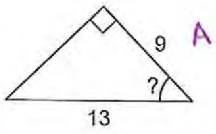
$= 23°$

7) 

$\sin ? = \frac{9}{16}$

$? = \sin^{-1}\left(\frac{9}{16}\right)$

$= 34°$

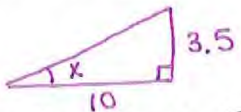
8) 

$\cos ? = \frac{9}{13}$

$? = \cos^{-1}\left(\frac{9}{13}\right)$

$= 46°$

9) Nate built a skateboard ramp that covers a horizontal distance of 10 ft. The ramp rises a total of 3.5 ft. What angle does the ramp make with the ground?



$\tan X = \frac{3.5}{10}$

$X = \tan^{-1}\left(\frac{3.5}{10}\right) = 19°$

10) You lean a 30 ft ladder against a house. The base of the ladder is 6 ft away from the wall. What angle does the ladder make with the ground?

$\cos X = \frac{6}{30}$

$X = \cos^{-1}\left(\frac{6}{30}\right) = 78°$