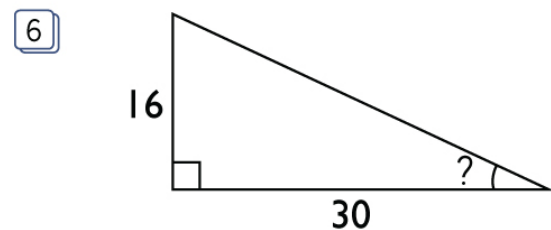Name : _____
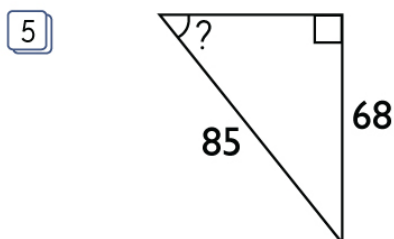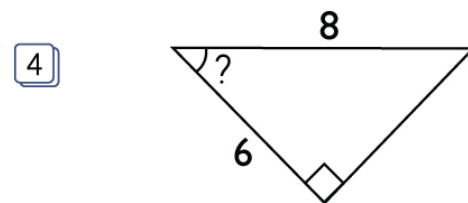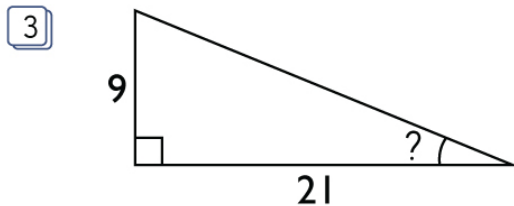
Inverse Trigonometric Ratios Worksheet

Find the measure of each angle to the nearest degree

1. cosA = 0.5878

2. tanQ = 19.0811

Find the measure of the indicated angle to the nearest degree

3.

4.

5.

6.

7. Find the value of θ when sinθ = cosθ

_____

Name : --

Inverse Trigonometric Ratios Worksheet

Answers

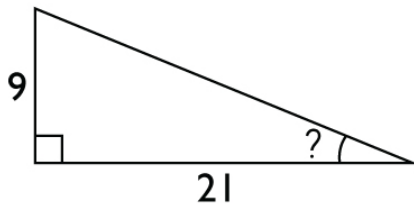**1** cosA = 0.5878

$\Rightarrow$ A = cos^{-1}(0.5878)

$\Rightarrow$ A = 54°

2 tanQ = 19.0811

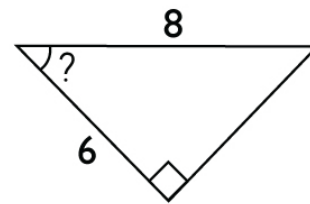$\Rightarrow$ Q = tan^{-1}(19.0811)

$\Rightarrow$ Q = 87°

3

$\tan^{-1}\left(\dfrac{9}{21}\right)$

= 23°

4
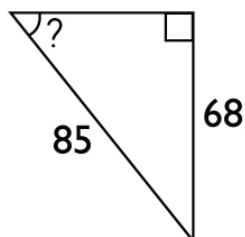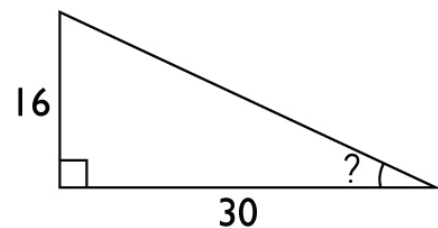

$\cos^{-1}\left(\dfrac{6}{8}\right)$

= 41°

5

$\sin^{-1}\left(\dfrac{68}{85}\right)$

= 53°

6

$\tan^{-1}\left(\dfrac{16}{30}\right)$

= 28°

7 Find the value of θ when sinθ = cosθ

θ = 45°