Name : _____

Inverse Trigonometric Ratios

A) Find the value of θ in degrees.

1) $\sin\theta = \frac{1}{2}$

2) $\csc\theta = \frac{2\sqrt{3}}{3}$

3) $\cos\theta = 0$

4) $\cot\theta = \frac{\sqrt{3}}{3}$

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$\sec\theta = \sqrt{2}$

B) Find the e

7) $\cos\theta = \frac{\sqrt{2}}{2}$

$\csc\theta = 2$

10) $\sec\theta = 1$

11) $\cot\theta = 0$

12) $\tan\theta = \sqrt{3}$

Name : _____

Answer key

Sheet 1

Inverse Trigonometric Ratios

A) Find the value of θ in degrees.

1) $\sin\theta = \frac{1}{2}$ — **30°**

2) $\csc\theta = \frac{2\sqrt{3}}{3}$ — **60°**

3) $\cos\theta = 0$ — **90°**

4) $\cot\theta = \frac{\sqrt{3}}{3}$ — **60°**

$\sec\theta = \sqrt{2}$ — **45°**

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B) Find the e

7) $\cos\theta = \frac{\sqrt{2}}{2}$ — **$\frac{\pi}{4}$**

$\csc\theta = 2$ — **$\frac{\pi}{6}$**

10) $\sec\theta = 1$ — **0**

11) $\cot\theta = 0$ — **$\frac{\pi}{2}$**

12) $\tan\theta = \sqrt{3}$ — **$\frac{\pi}{3}$**