Name: _____ Period: _____ Date: _____

Trigonometric Identities Guided Notes

1. Which of these trigonometric identities is correct?

$a.\ \sin(\theta)\cot(\theta) = \tan(\theta)$ $b.\ \tan(\theta)\cot(\theta) = \cos(\theta)$ $c.\ \sin(\theta)\cot(\theta) = \cos(\theta)$

2. Which of these trigonometric identities is correct?

$a.\ \tan(\theta)\cot(\theta) = 1$ $b.\ \operatorname{cosec}(\theta)\cot(\theta) = \cos(\theta)$ $c.\ \sec(\theta)\operatorname{cosec}(\theta) = 1$

3. Which of these is not a reciprocal identity?

$a.\ \frac{1}{\sin(\theta)} = \operatorname{cosec}(\theta)$ $b.\ \frac{1}{\cot(\theta)} = \sec(\theta)$ $c.\ \cot(\theta) = \frac{1}{\tan(\theta)}$

4. What will be the value of $\sin(\theta)$ if $\cot(\theta) = \frac{1}{\sqrt{3}}$ and $\cos(\theta) = \frac{1}{2}$?