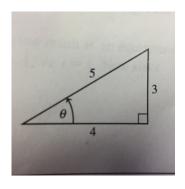
MATH 116 HOMEWORK 04

BLAKE FARMAN UNIVERSITY OF SOUTH CAROLINA

5.2

- 2. Evaluate
- (a) $\cos(12\pi)$
- (b) $\sin\left(\frac{5\pi}{2}\right)$
- (c) $\sin\left(\frac{-9\pi}{2}\right)$
- (d) $\cos(101\pi)$
- **4.** What is $\cos(\theta + \pi)$ in terms of $\cos(\theta)$? (Hint: Use the unit circle).
- **6.** (a) In the triangle shown, calculate $sin(\theta)$ and $cos(\theta)$.
- (b) Calculate $\sin^2(\theta) + \cos^2(\theta)$.



Date: November 9, 2015.

Evaluate the following.

- $2. \sin\left(\frac{7\pi}{4}\right).$
- **4.** $\cos\left(\frac{-3\pi}{4}\right)$.
- 8. $\cos\left(\frac{13\pi}{6}\right)$.
- 12. $\sin\left(\frac{29\pi}{6}\right)$.

5.4

- **4.** Graph the following functions over the interval $(0, 2\pi)$:
- (a) $y = \sin(2x)$.
- (b) $y = \cos\left(\frac{3}{2}x\right)$.
- (c) $y = \sin(\pi x)$.
- **10.** Graph $y = 3\sin(2x) 1$, and find its amplitude, period, and frequency.