MATH 116
HOMEWORK 04

BLAKE FARMAN
UNIVERSITY OF SOUTH CAROLINA

5.2

2. *Evaluate*

(a) $\cos(12\pi)$

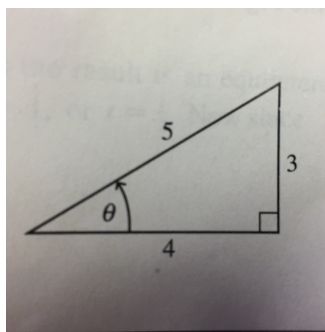*(b)* $\sin\left(\dfrac{5\pi}{2}\right)$

(c) $\sin\left(\dfrac{-9\pi}{2}\right)$

(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 $\sin^2(\theta) + \cos^2(\theta)$.

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<div align="center">5.3</div>

Evaluate the following.

2. $\sin\left(\dfrac{7\pi}{4}\right)$.

4. $\cos\left(\dfrac{-3\pi}{4}\right)$.

8. $\cos\left(\dfrac{13\pi}{6}\right)$.

12. $\sin\left(\dfrac{29\pi}{6}\right)$.