

Quiz 5 - Math 112, Sections 20-22

Calculators are **not** allowed for this exam. Please mark your final answers clearly. Give exact answers.

1. Evaluate the following.

(a) $\sin\left(\frac{\pi}{3}\right) = \frac{\sqrt{3}}{2}$

(b) $\cos\left(\frac{7\pi}{6}\right) = -\frac{\sqrt{3}}{2}$

(c) $\tan\left(\frac{3\pi}{4}\right) = -1$

(d) $\sec\left(\frac{\pi}{2}\right) = \text{UNDEFINED}$

(e) $\csc(5\pi) = \text{UNDEFINED}$

(f) $\cot\left(\frac{11\pi}{6}\right) = -\sqrt{3}$

2. Consider the function

$$f(x) = 3 \sin\left(\frac{\pi}{2}x - 3\pi\right)$$

Graph the function on the axes below. **Note:** The distance between each of the hash marks on the x -axis must represent one period, so label correctly!

