

Name: KEY Quiz Score: _____ /20

Quiz 3: Version A

NO CALCULATORS.

1. Label each of the following on the x -axis of the coordinate system below.

- | | | | | |
|---------------------|---------------------|----------------------|----------------------|----------------------|
| (a) 2π | (c) $\frac{\pi}{3}$ | (e) $\frac{\pi}{6}$ | (g) $\frac{3\pi}{2}$ | (i) $\frac{3\pi}{4}$ |
| (b) $\frac{\pi}{2}$ | (d) $\frac{\pi}{4}$ | (f) $-\frac{\pi}{2}$ | (h) $\frac{5\pi}{3}$ | (j) $\frac{7\pi}{6}$ |

2. Give the exact values for each of the following.

- | | | |
|----------------------|--|--|
| (a) $\sin(0) = 0$ | (d) $\sin\left(\frac{\pi}{2}\right) = 1$ | (g) $\sin\left(\frac{\pi}{6}\right) = \frac{1}{2}$ |
| (b) $\sin(\pi) = 0$ | (e) $\sin\left(-\frac{\pi}{2}\right) = -1$ | (h) $\sin\left(\frac{5\pi}{6}\right) = \frac{1}{2}$ |
| (c) $\sin(2\pi) = 0$ | (f) $\sin\left(\frac{3\pi}{2}\right) = -1$ | (i) $\sin\left(\frac{7\pi}{6}\right) = -\frac{1}{2}$ |

3. Sketch the graph $y = \sin x$. Fill out the whole coordinate grid.

4. Plot and label (with their ordered pairs) the points corresponding to question 2 above.

