Quiz18, MAT 1375 Professor Chiu

ID: Name:

- This quiz consists of 4 sets of questions for a total of 20 points.
- You have 15 minutes to complete the quiz.
- Wishing you success.
- 1. Find the trigonometric function values by using the addition and subtraction formulas.

a)
$$\sin(75^{\circ}) = 5in(30^{\circ} + 45^{\circ}) = 5in(30^{\circ}) \cos(45^{\circ}) + \cos(30^{\circ}) \sin(45^{\circ})$$

$$= \frac{1}{2} \sum_{2}^{2} + \frac{1}{4} = \frac{1}{2} + \frac{1}{4} = \frac{1}{2} + \frac{1}{4} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$$

2. Find the amplitude, period, and phase shift of the function: $y = (3 \cos(2x + \pi))$.

$$\frac{11}{3} \quad \frac{2\pi}{2} = \pi$$

$$= 3 \cos \left(2 \cdot \left(x \cdot \frac{\pi}{2}\right)\right)$$

3. Find the value of the given inverse sine functions:
$$\sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$$
.

$$\int_{0}^{2} dt = \int_{0}^{2} \left(-\frac{\sqrt{3}}{2}\right) \qquad \int_{0}^{2} \int_{0}^{2} dt = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} dt = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} dt = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} dt = \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2} \int_{0}^{2}$$

4. Complete the chart of the unit circle: quadrants, radian, and the coordinates representing $(\cos(\theta), \sin(\theta))$.

