MATH 119: Quiz 7 Name: Key

Directions:

- * Show your thought process (commonly said as "show your work") when solving each problem for full credit.
- * If you do not know how to solve a problem, try your best and/or explain in English what you would do.
- * Good luck!

1. Solve the equation

$$2\cos^{2}\theta + \sin\theta = 1$$

$$(-y + i)(2y + i) = 0$$

$$(-sin\theta + i)(2sin\theta + i) = 0$$

$$-1$$

$$-2\sin\theta + i = 0$$

$$2\sin\theta + i = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$2\sin\theta + i = 0$$

$$\sin\theta = 1$$

$$(\cos\theta + i) = 0$$

$$\sin\theta = -\frac{i}{2}$$

$$(\sin\theta + i) = 0$$

$$\sin\theta = -\frac{i}{2}$$

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$$\sin\theta = -\frac{i}{2}$$

$$(\sin\theta + i) = 0$$

$$(\sin\theta + i) = 0$$

$$(\sin\theta + i) = 0$$

$$\sin\theta = -\frac{i}{2}$$

$$(\sin\theta + i) = 0$$

$$(\sin$$

3. Convert $x^2 + y^2 = 4$ into polar coordinates.

$$r^{2} = x^{2} + y^{2}$$

$$r^{2} = 4$$

$$\int \frac{1}{V} = 2$$

4. Convert
$$r = \frac{1}{\cos \theta - \sin \theta}$$

$$Y \cos \theta - V \sin \theta = 1$$

$$X - Y = 1$$