Your Name:

Duration of the Quiz is 15 minutes. There are three problems, worth 20 points. Show all your work for full credit. Books, notes etc. are prohibited. Calculators are NOT permitted.

1. Covert the following angle in degrees to radians.

$$315°$$

2. You are given a point on the unit circle centered at the origin. Find the y coordinate and the values of the six trigonometric functions.

$$P\left(-\frac{1}{\sqrt{2}}, y\right), \ y > 0$$

3. Sketch the following functions.

(a) $f(x) = (x - 2)^2 + 1$

(b) $g(x) = 2x + 3$

(c)

$$h(x) = \begin{cases} (x - 2)^2 + 1 & \text{if } x \leq 1 \\ 2x + 3 & \text{if } x > 1 \end{cases}$$