

Name:

## QUIZ – MATH GRADE 11

1. (50%) Given that  $\cos(x) = -\frac{5}{9}, \frac{\pi}{2} < x < \pi$  Find:

a. (10%)  $\sin(x) =$

b. (6%)  $\tan(x) =$

c. (6%)  $\sin(2x) =$

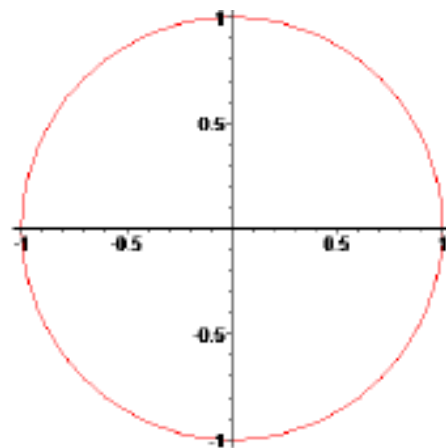
d. (8%)  $\tan(2x) =$

e. (10%)  $\sin(4x) =$

f. (10%) (sketch on unit circle to show work)

$\cos(\pi - x) =$

$\sin(2\pi - x) =$



2. (30%) Given that  $\tan(x) = -1$ ,  $\pi < x < 2\pi$  Find:

a. (10%)  $x$  is in the \_\_\_\_\_ quadrant

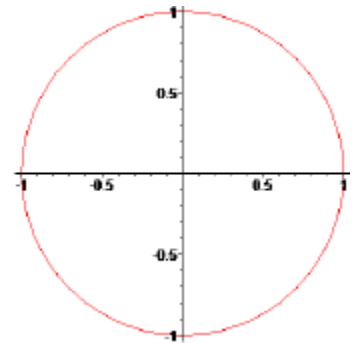
b. (10%)  $\cos(x) =$

c. (10%)  $\sin(x) =$

3. (20%) In each one of the cases Find (5%) and sketch (5%) on the unit circle:

a. (10%)  $\cos(12^\circ) = \cos(\text{_____})$

Angle found should be within  $[0, 360^\circ]$



b. (10%)  $\tan\left(\frac{2\pi}{3}\right) = \tan(\text{_____})$

Angle found should be within  $[0, 2\pi]$

