EE185 **Name _____**

Fall 2020

Game 17 10/12/20

You can use the following to help you with this game. Please be careful about Quadrant and showing your work

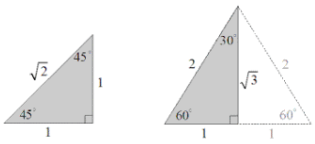

Table of exact values for the sin, cos and tan functions

angle → / function ↓	0	30° or $\frac{\pi}{6}$	45° or $\frac{\pi}{4}$	60° or $\frac{\pi}{3}$	90° or $\frac{\pi}{2}$
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	∞

Find the following in Polar and Complex **and show your work clearly**

1. $(x = -\frac{\sqrt{3}}{2}, y = \frac{1}{2})$

2. $(x = -\frac{1}{2}, y = -\frac{\sqrt{3}}{2})$

3. $(x = -\frac{\sqrt{2}}{2}, y = \frac{\sqrt{2}}{2})$

4. $(x = -\frac{\sqrt{2}}{2}, y = -\frac{\sqrt{2}}{2})$