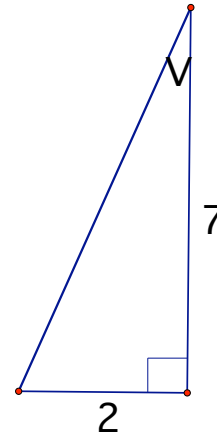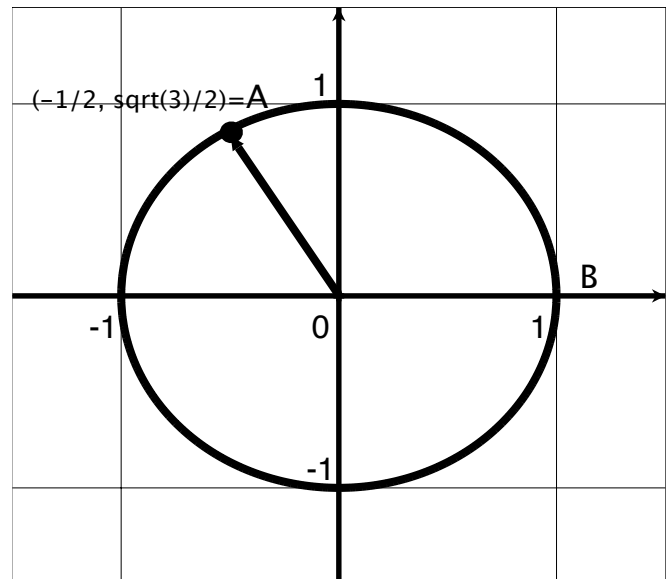# Quiz 5

Show *all* your work algebraically for each. No credit is given without supporting work. There are *two* sides to this quiz.

1. [3] (§5.5 #11) Find $\sin v$, given:

7

2

2. The following questions refer to the angle depicted on the left between A, O, and B.

   (a) [1] Find the radian measure of the angle AOB.

(−1/2, sqrt(3)/2)=A

   (b) [1] Find the degree measure of the angle AOB.

   (c) [1] (§5.1 #21) Find the length of the arc connecting A to B that passes through quadrant I.

1

3. Given $\cos 15° = \dfrac{\sqrt{2 + \sqrt{3}}}{2}$, find the following:

(a) [3] (§5.4 #13) Find the exact simplified value (not a decimal approximation) of $\sin 15°$

(b) [1] (§5.4 #15) Find the exact simplified value (not a decimal approximation) of $\tan 15°$