

**AP Calculus AB**  
**Section 1.3: Trigonometric Functions**  
**Worksheet 3a: Conversions and quadrants**

**Directions:** For each of the angle measures given below:

**(A) Find the equivalent radian or degree measure**

**(B) Determine the quadrant in which the terminal side of the angle lies**

**(C) Determine the sign of the sine, cosine, and tangent function of the angle**

1.  $\frac{3\pi}{2}$

2.  $-120^\circ$

3.  $45^\circ$

4.  $-\frac{5\pi}{6}$

5.  $\frac{3\pi}{4}$

6.  $-270^\circ$

7.  $\frac{\pi}{3}$

8.  $-180^\circ$

9.  $\frac{7\pi}{6}$

10.  $60^\circ$

11.  $225^\circ$

12.  $-\frac{5\pi}{4}$

13.  $315^\circ$

14.  $-\frac{2\pi}{3}$

15.  $\frac{11\pi}{6}$

16.  $-135^\circ$

17.  $\frac{\pi}{6}$

18.  $\frac{5\pi}{3}$