ACMAT118 Spring 2024 Professor Manguba-Glover Section 6.5 Homework (HW 7)

Name:

Show all work and simplify all answers before circling/boxing them. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for full credit.

**Due next class.** Students who turn assignments in late (or do not attempt a problem) forfeit their ability to rewrite those problems for credit.

Graph the following functions over at least one period. List the amplitude, period, phase shift, and vertical shift.

1.  $y = -\tan\left(\frac{\pi}{4}x + \frac{\pi}{8}\right) + 2$ <br/>
2.  $y = -2\sin\left(\frac{x}{4} - \frac{\pi}{2}\right) - 1$ <br/>
3.  $y = \sin\left(3x + \frac{\pi}{2}\right)$ <br/>
4.  $y = -\cos(3x + \pi)$ <br/>
5.  $y = \tan\left(x - \frac{\pi}{3}\right) + 4$