## Practice Problems – Short Documentation (8 points) For these 2 problems, the Given, Find, and Solution are the only required documentation.

1. You have a hollow circular shaft that has a static torque of 1,500 lbf\*ft on it. The shaft is 7 ft long, 4 inches in diameter, and has a wall thickness of 0.25 in.
   1. Calculate the maximum shear stress [psi] on the shaft.
   2. Calculate the minimum shear stress [psi] on the shaft.
2. You have a solid circular shaft that has a static torque of 175 lbf\*in on it. The shaft is 5 in long, and 1.75 inches in diameter.
   1. Calculate the maximum shear stress [psi] on the shaft.
   2. Calculate the minimum shear stress [psi] on the shaft.

## Pre-Class Preparation (0 points)

* Review MM Module M6.2, Scene 1 through Scene 18