Test 5 covers lectures 16-19

Lectures 16-17

- Find magnitude and direction of torque about a given rotation axis
- Solve for unknown forces or acceleration using $\Sigma\tau = I\alpha$
- Solve force-acceleration problems by combining $\Sigma F = ma$ and $\Sigma\tau = I\alpha$
- Determine total angular momentum of a system of two or more objects
- Conserve angular momentum

Lectures 18-19

- Use the definition of pressure to relate force, pressure, area
- Apply the rule that pressure is same at the same height in the same fluid
- Determine hydrostatic pressure
- Analyze a system in which buoyant force combined with other forces cause an object to be in equilibrium
- Apply flow continuity to a fluid in a pipe
- Use the Bernoulli equation to solve for unknown info in a pipe or tube
- Apply the inverse relationship between pressure and flow velocity

Test 5 diagram sample