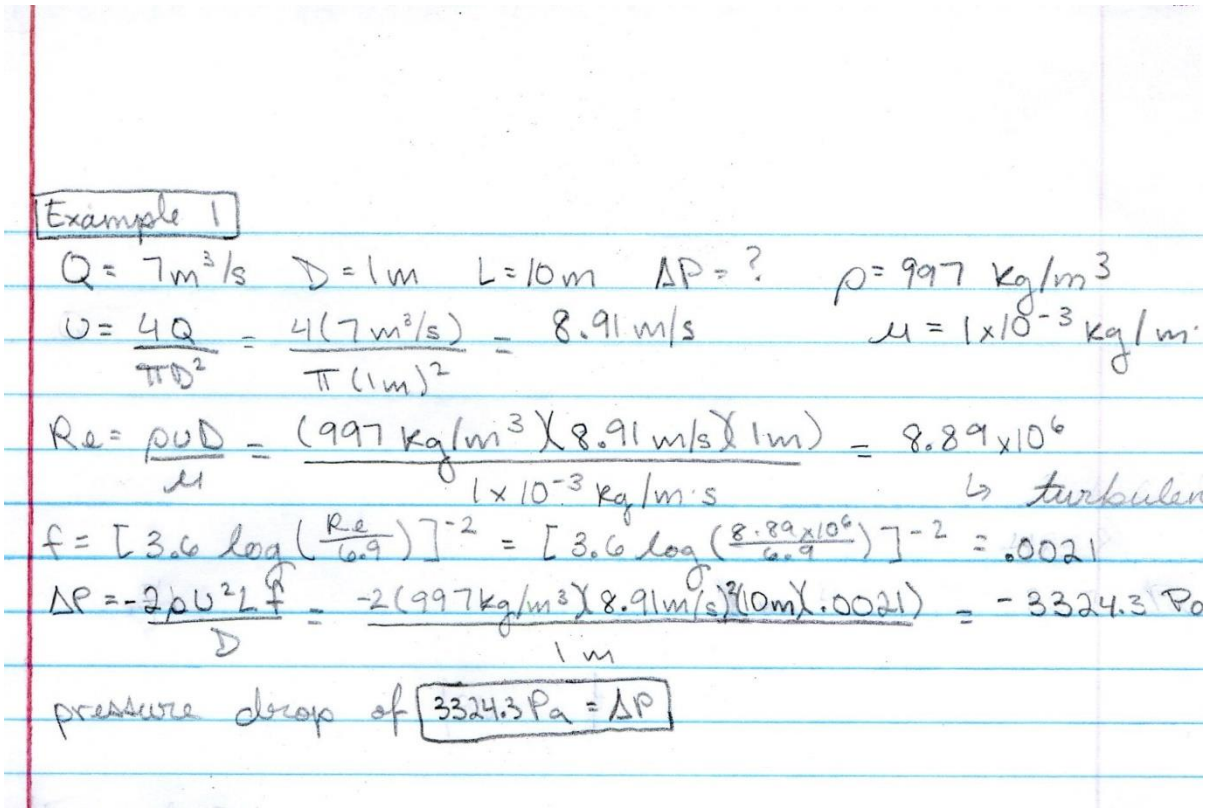
Water flows through a pipe where the diameter is 1 m and the length of 10 m. The flow rate is 7 m^3/s. Determine the change in pressure across the pipe.



Calculate the drag force of a particle (D = .5 m) moving through water at 2 m/s.