**Module 1 – Fluids: Quiz 1a**

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Calculate P = Po + ρgd



P = 1.0 x 105 N/m2 + (1,000 kg/m3)(9.8 N/kg)(0.70 m) = 1.0686 x 105 N/m2



Calculate F = P x Acircle = P x πr2



F= (107,000 N/m2)( π)(0.01m)2 = 34 N