Lab 1 solutions

Part I
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1) the length of the pendulum; the mass of the ball

2) the period for the longer pendulum is approximately 2x larger than
than for the shorter pendulum

3) 3x larger

Part II
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1) Period is proportional to square root of the mass

Part III
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1) the period decreases by a factor of 2 for 4x tension

2) the fundamental frequency increases by a factor of 2 for 4x tension

Part IV
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1) 1:1 – unison
   5:4 – major third
   3:2 – fifth
   2:1 – octave