QUIZ 1 - MATH 310	Thursday, January 16
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Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Recall the differential equation

$$m\frac{dv}{dt} = mg - \gamma v.$$

Assume a free fall of an object is modeled, where m=2 Kg and  $\gamma=4$  Kg/sec. Find the velocity function v(t). (You may take  $g\approx 10$  m/sec<sup>2</sup>.)

