

Quiz 10 — 11/30/17

Name: _____ Section and/or TA: _____

Answer all questions in a clear and concise manner. Unsupported answers will receive *no credit*.

1. (2 points) For what values of r does the function $y = e^{rx}$ satisfy the differential equation $2y'' + y' - y = 0$?

2. In the direction field below, sketch the graphs of the solutions that satisfy the given initial conditions.
 - (a) $y(0) = 1$
 - (b) $y(0) = 2.5$
 - (c) $y(0) = 3.5$

