3. [8 points] A Whiffle Ball is a lightweight plastic ball with holes in at least one hemisphere. If we assume a viscous friction, the upward motion of a thrown or hit whiffle ball may be described in terms of its velocity v or vertical position y by $v' = -\frac{c}{m}v - g$ or $y'' = -\frac{c}{m}y' - g$. In this problem we take c/m = 10 and g = 10 (that is, approximately 9.8 m/s²). If we start with y(0) = 0 and v(0) = 5 m/s, find the velocity v and position y of the ball.

> v = ______ y = _____