

MATH 203 WORKSHEET #11

Solve the following initial value problems, and sketch a graph of the solution. Use time as the variable. We will discuss the applications in class next week!

$$(1) \quad y' = 2y \quad y(0) = 3$$

$$(2) \quad p' = 3p \quad p(0) = -1$$

$$(3) \quad y' = 1.05y \quad y(0) = 2$$

$$(4) \quad y' = -1.1y \quad y(0) = 5$$

$$(5) \quad r' = -0.04r \quad r(0) = 2.2$$

$$(6) \quad r' = -0.7(r - 2) \quad r(0) = 5$$

$$(7) \quad r' = -1.7(r - 1) \quad r(0) = 0.5$$

$$(8) \quad m' = -1.2(m + 1) \quad m(0) = 2$$

$$(9) \quad r' = -0.1r + 2 \quad r(0) = 4$$

$$(10) \quad r' = 0.5r - 2 \quad r(0) = 5$$

$$(11) \quad r' = -0.5r + 2 \quad r(0) = 4$$