

## Math 276 Discussion Worksheet 16

1. Simplify the expression or solve the equation.

a.  $\frac{1-i}{1+i}$       b.  $(1+i)^8$       c.  $z^3 = 8$       d.  $e^z = -e$       e.  $z^2 + 2z + 2 = 0$

2. Solve the following initial value problem.

$$y'(t) + y(t) = 1+t, \quad y(0) = 0$$

3. Solve the following initial value problem.

$$y''(t) + y(t) = t, \quad y(0) = 0, \quad y'(0) = 0$$