ECE 321 - Homework #27

Superposition

1) A circuit has the following transfer function

$$Y = \left(\frac{20}{(s+1)(s+5)}\right)X$$

Find y(t) assuming

$$x(t) = 2 + 3\cos(4t) + 5\sin(6t)$$

2) A circuit has the following transfer function

$$Y = \left(\frac{20}{(s+1+j4)(s+1-j4)}\right)X$$

Find y(t) assuming

$$x(t) = 2 + 3\cos(4t) + 5\sin(6t)$$