## Assignment 1 Solution

(1)

a) 
$$x = 8$$

b) 
$$x = 1/16$$

c) 
$$x = 2$$

d) 
$$x = 25$$

e) 
$$x = 2/3$$

(2)

a) 
$$2x - 4y$$

b) 
$$\frac{x+4y}{2x+1}$$

(3)

a) 
$$s(t) = 1.5\sin(4t) + 4\sin(t)$$

b)

	1.5 sin(4t)	4 sin(t)
А	3/2 V	4 V
f	2/π Hz	1/2m Hz
Θ	0 rad	0 rad

c) and d) see next page

(4)

a) 
$$C = 1.58 \text{ kbps}$$

b) 
$$C = 30.1 \text{ kbps}$$

(5) 8.47 km/hr

