1. Sketch the following signals
   1. 
   2. 
   3. 
   4. 
   5. 
2. Synthesize the following waveforms of figures 1, 2 & 3 into standard signals

+V0

-V0

a

2a

3a

f(t)

t

Figure 1

+1

-1

-1

0

1

f(t)

t

Figure 3

+V0

T/2

T

f(t)

t

Figure 2

3T/2

1. A signal x(t) is shown in the following figure 4, sketch the following signals
   1.  b. 

+1

1

2

x(t)

t

Figure 4

c.  d. 

1. Draw the analogous electrical circuit of the following systems
   1. Use f-v and f-i analogy for system shown in figure 5.
   2. Use f-v analogy for system shown in figure 6.

M1

M2

K1

K2

B1

F(t)

x1

x2

B2

B3

Figure 5

Friction Less

K3

Figure 6

K2

K1

T

J1

J2

Ans:

2. 