(a) 
$$A = A B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K = 0$$

$$x + 2 B x + K =$$

$$\frac{dE}{dt} = \frac{1}{2}(a\dot{x}\dot{x})m + \frac{1}{2}(ax\dot{x})k$$

$$\frac{dE}{dt} = \frac{1}{2}(a\dot{x}\dot{x})m + \frac{1}{2}(ax\dot{x})k$$

$$\frac{dE}{dt} = \dot{x}\dot{x}m + \dot{x}\dot{x}k$$

$$m\ddot{x} + b\dot{x} + K\dot{x} = 0 \quad m\ddot{x} + K\dot{x} = -b\dot{x}$$

$$\dot{x}\dot{x}m - \frac{dE}{dt} + \dot{x}\dot{x}k = 0$$

$$\frac{dE}{dt} = \dot{x}(m\ddot{x} + K\dot{x})$$

$$m\ddot{x} + K\dot{x} = -b\dot{x}$$

$$m\ddot{x} + m\ddot{x} + m\ddot{x} + m\ddot{x}$$

$$m\ddot{x} + m\ddot{x} + m\ddot{x} + m\ddot{x}$$

$$m\ddot{x} + m\ddot{x} + m\ddot{x$$