

Analyzing Motion Graphs - Worksheet

Part 1 - General Curves

Constant Velocity Case



Constant Acceleration Case



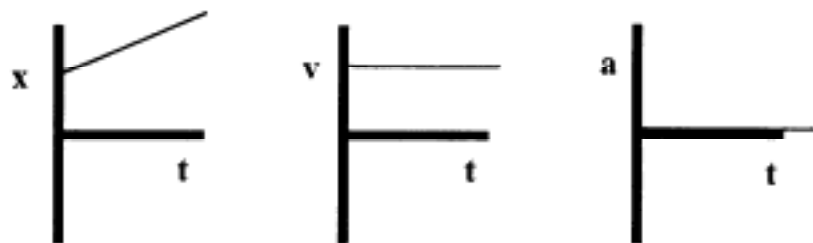
Part 2 - More Specific Curves

$x_0 = 50 \text{ m}$

$v_0 = 10 \text{ m/s}$

$a = 0 \text{ m/s}^2$

$k = \underline{\hspace{1cm}}$

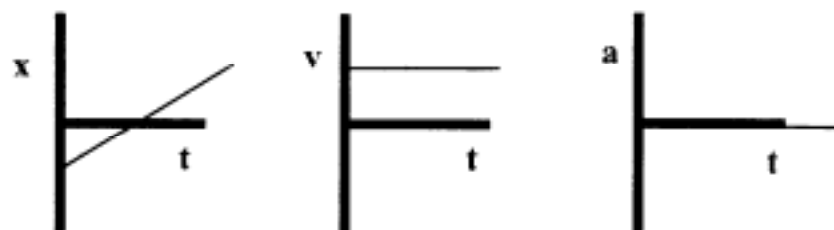


$x_0 = -50 \text{ m}$

$v_0 = 10 \text{ m/s}$

$a = 0 \text{ m/s}^2$

$k = \underline{\hspace{1cm}}$

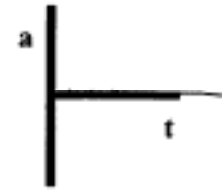
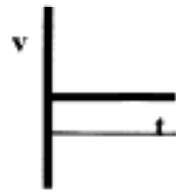
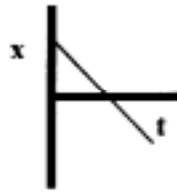


$$x_0 = 50 \text{ m}$$

$$v_0 = -10 \text{ m/s}$$

$$a = 0 \text{ m/s}^2$$

$$k =$$

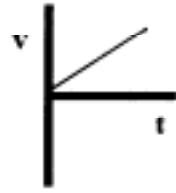
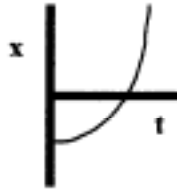


$$x_0 = -50 \text{ m}$$

$$v_0 = 0 \text{ m/s}$$

$$a = 5 \text{ m/s}^2$$

$$k =$$

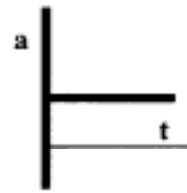
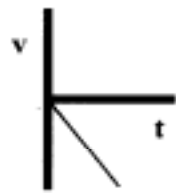


$$x_0 = 50 \text{ m}$$

$$v_0 = 0 \text{ m/s}$$

$$a = -5 \text{ m/s}^2$$

$$k =$$

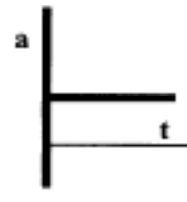
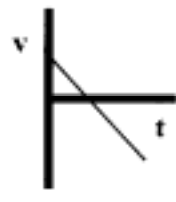


$$x_0 = 0 \text{ m}$$

$$v_0 = 10 \text{ m/s}$$

$$a = -5 \text{ m/s}^2$$

$$k =$$



$$x_0 = -50 \text{ m}$$

$$v_0 = -10 \text{ m/s}$$

$$a = 5 \text{ m/s}^2$$

$$k =$$

