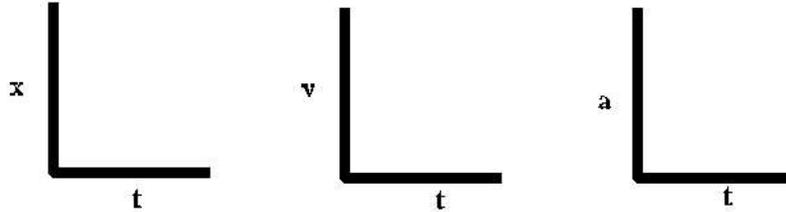


Analyzing Motion Graphs - Worksheet

Part 1 - General Curves

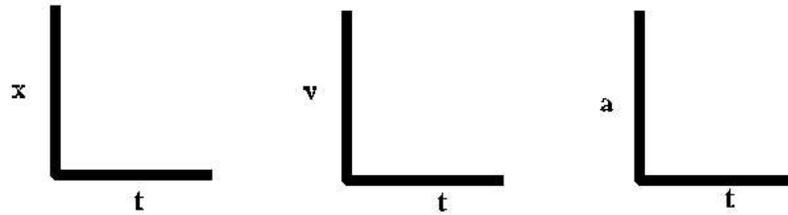
Constant Velocity Case

$$v = k$$



Constant Acceleration Case

$$a = k$$



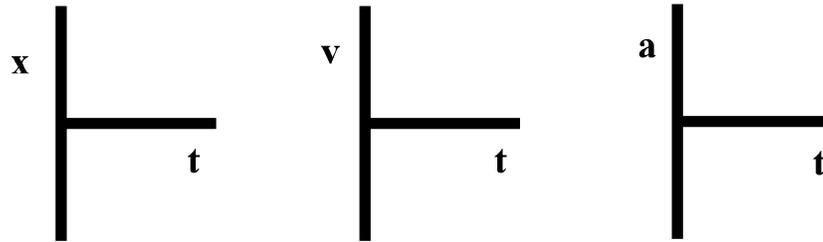
Part 2 - More Specific Curves

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

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

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

$$k = \underline{\hspace{2cm}}$$

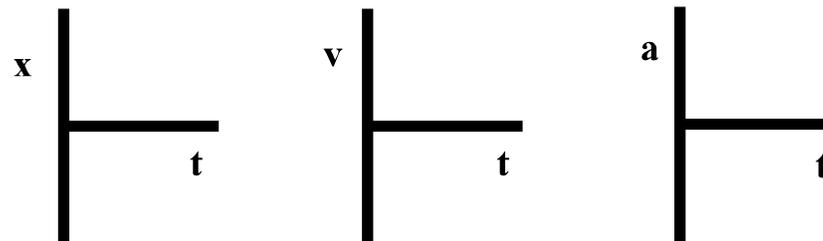


$$x_0 = -50 \text{ m}$$

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

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

$$k = \underline{\hspace{2cm}}$$

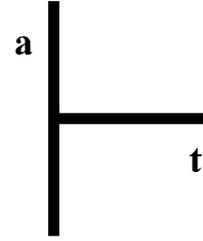
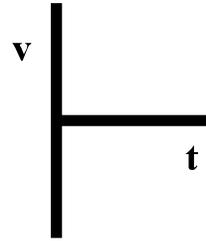
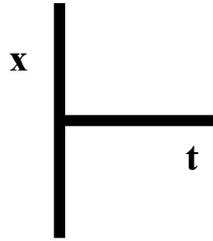


$$x_0 = 50 \text{ m}$$

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

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

$$k =$$

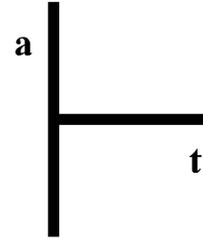
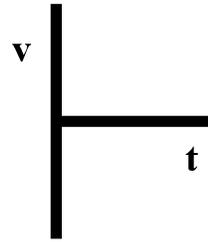
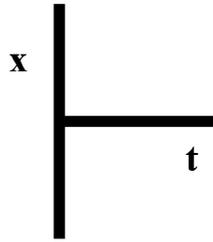


$$x_0 = -50 \text{ m}$$

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

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

$$k =$$

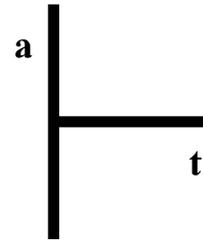
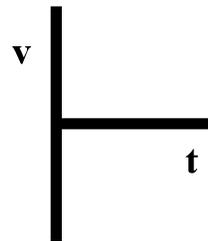
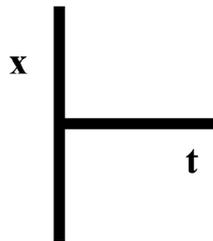


$$x_0 = 50 \text{ m}$$

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

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

$$k =$$

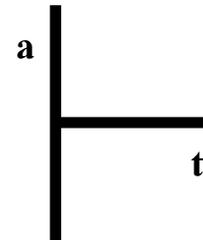
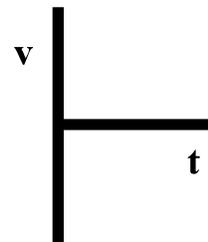
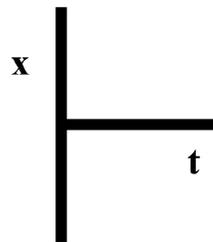


$$x_0 = 0 \text{ m}$$

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

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

$$k =$$



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

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

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

$$k =$$

