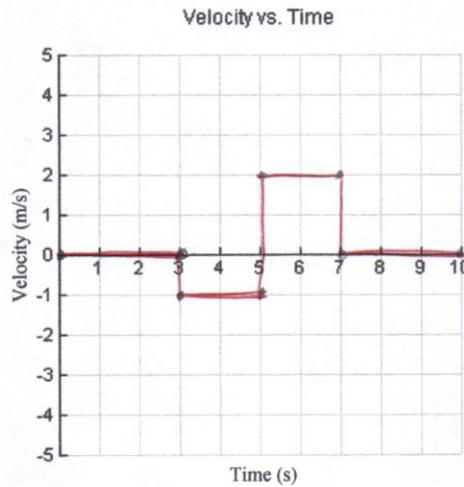
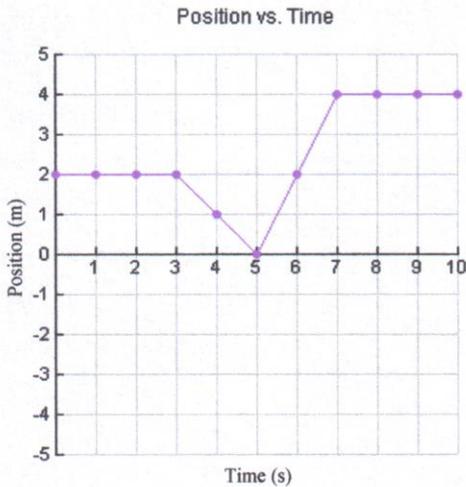


Question D:

Complete the missing Velocity-Time graph for the situation below. Assume all unknown initial position and velocity values are zero.



Find velocity from slope of Position-Time graph for each section:

Examples: $V_{0-3} = \frac{\Delta d}{t} = \frac{0\text{ m}}{3\text{ sec}}$

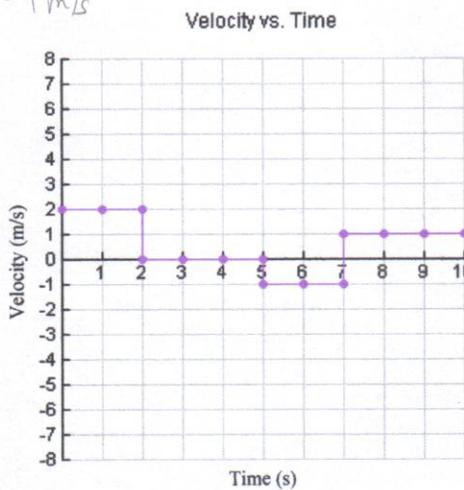
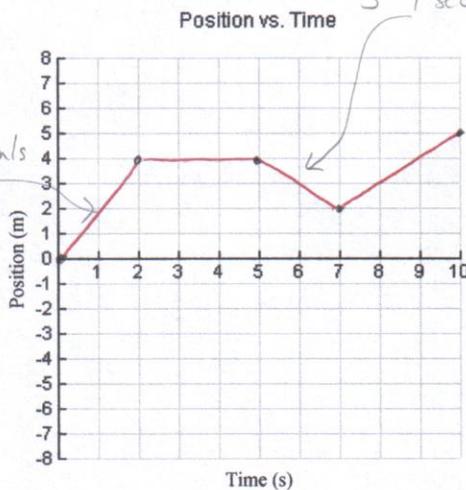
$V_{3-5} = \frac{\Delta d}{t} = \frac{0\text{ m} - 2\text{ m}}{2\text{ sec}} = \frac{-2\text{ m}}{2\text{ sec}}$

$V_{0-3} = 0\text{ m/s}$

$V_{3-5} = -1\text{ m/s}$

Question E:

Complete the missing Position-Time graph for the situation below. Assume all unknown initial position and velocity values are zero.



Slope from 0-2 sec is 2m/s

Slope from 5-7 sec is -1m/s

Find change in position from Area of Velocity-Time graph for each section:

Examples: $\Delta d_{0-2} = \text{area} = b \cdot h$
 $= (2\text{ sec})(2\text{ m/s})$

$\Delta d_{2-5} = \text{area} = b \cdot h$
 $= (3\text{ sec})(0\text{ m/s})$

$\Delta d_{0-2} = 4\text{ m}$

$\Delta d_{2-5} = 0\text{ m}$