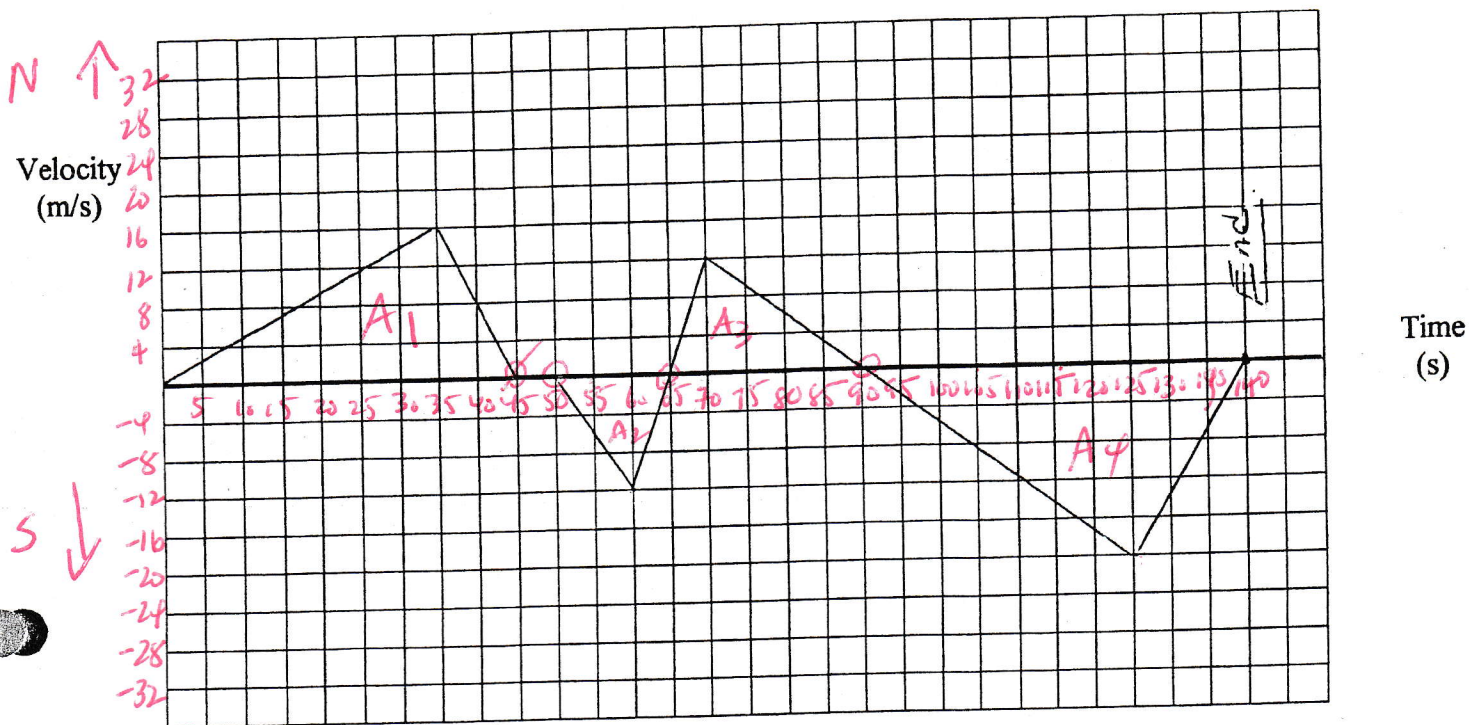


key

Velocity vs. Time



In the above graph, the positive direction is north. Each block represents 4 m/s on the vertical axis and 5 s on the horizontal axis.

$$A_1 = \frac{1}{2}(45)16 = 360m$$

$$A_2 = \frac{1}{2}(15)(-12) = -90m$$

$$A_3 = \frac{1}{2}(25)(12) = 150m$$

$$A_4 = \frac{1}{2}(50)(20) = 500m$$