P # M

Ch 2 Worksheet

a) d = area of V-T graph

$d_{0-5} = \frac{1}{2} \cdot b \cdot h$ (triangle)

$= \frac{1}{2}(5 \text{ sec})(10 \text{ m/s})$

$\boxed{d_{0-5} = +25 \text{ m}}$

b) $d_{5-10} = \frac{1}{2} \cdot b \cdot h$ (triangle)

$= \frac{1}{2}(5 \text{ sec})(-10 \text{ m/s})$

$\boxed{d_{5-10} = -25 \text{ m}}$

c) $d_{0-10} = d_{0-5} + d_{5-10}$

$= 25 \text{ m} + (-25 \text{ m})$

$\boxed{d_{0-10} = 0 \text{ m}}$