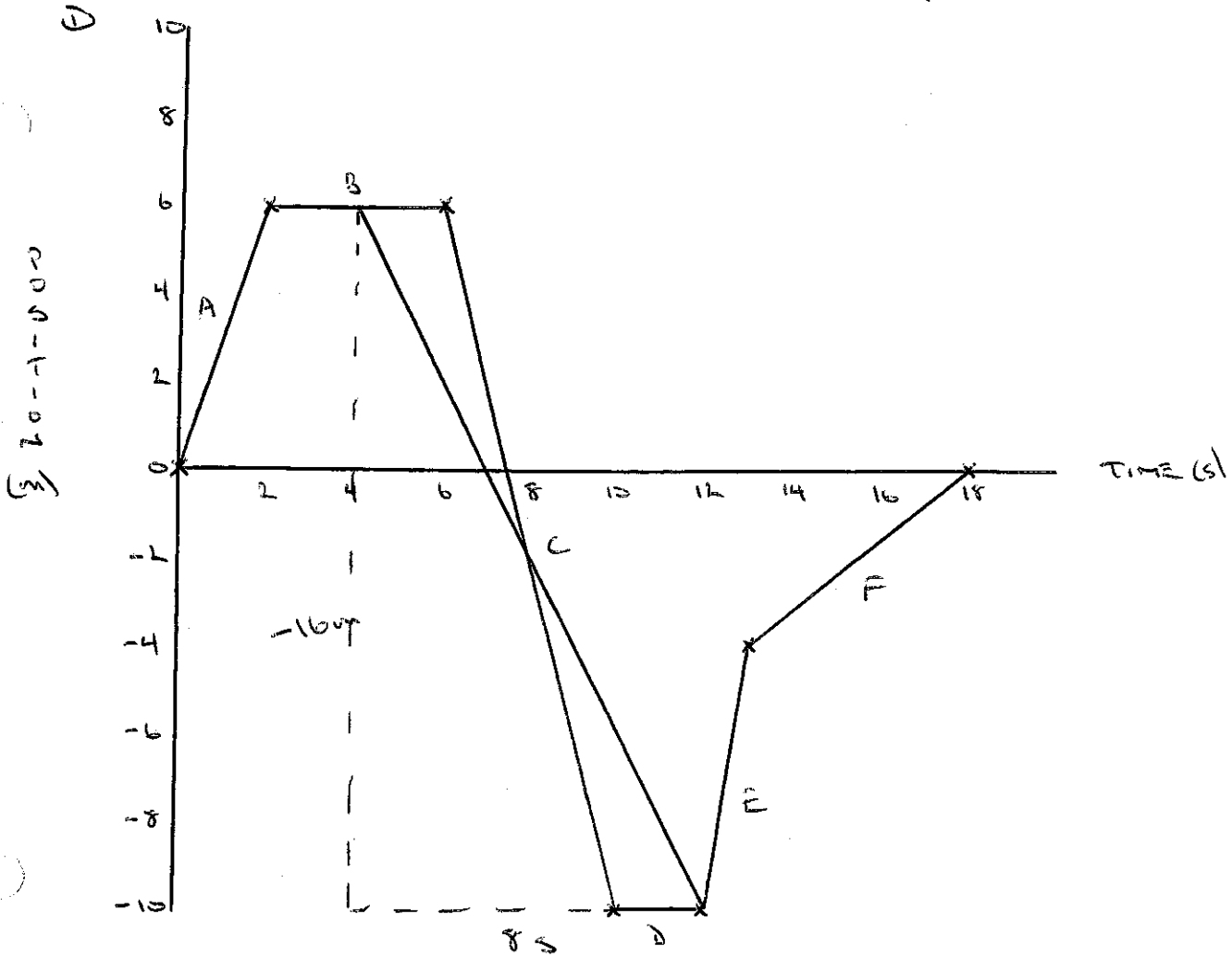


# Motion Worksheet 9



- b.
- A MOVES FORWARD 6 m IN 2 s.
  - B STOPS FOR 4 s.
  - C MOVES BACKWARDS 16 m IN 4 s.
  - D STOPS FOR 2 s.
  - E MOVES FORWARD 6 m IN 1 s.
  - F MOVES FORWARD 4 m IN 5 s.

c.

A	$v = \frac{+6\text{m}}{2\text{s}} = +3 \text{ m/s}$	
B	$v = 0$	
C	$v = \frac{-16\text{m}}{4\text{s}} = -4 \text{ m/s}$	
D	$v = 0$	

E	$v = \frac{+6\text{m}}{1\text{s}} = +6 \text{ m/s}$
F	$v = \frac{+4\text{m}}{5\text{s}} = +0.8 \text{ m/s}$

d.  $v = \frac{-16 \text{ m}}{8 \text{ s}} = -2 \text{ m/s}$

- ② a. A MOVES BACKWARD 10 m IN 4 s.  
B STOPS FOR 3 s.  
C MOVES FORWARD 20 m IN 2 s.  
D MOVES BACKWARD 7.5 m IN 2 s.  
E STOPS FOR 1 s.  
F MOVES FORWARD 17.5 m IN 2 s.

b. A  $v = \frac{-10 \text{ m}}{4 \text{ s}} = -2.5 \text{ m/s}$

B  $v = 0$

C  $v = \frac{+20 \text{ m}}{2 \text{ s}} = +10 \text{ m/s}$

D  $v = \frac{-7.5 \text{ m}}{2 \text{ s}} = -3.75 \text{ m/s}$

E  $v = 0$

F  $v = \frac{+17.5 \text{ m}}{2 \text{ s}} = +8.75 \text{ m/s}$

c.  $v = \frac{+20 \text{ m}}{14 \text{ s}} = +1.43 \text{ m/s}$