Ex1) Use 
$$x = x_0 + v_0 t + \frac{1}{2}at^2$$
 (D, 2.16)  
 $x = 10 + 10(5) + \frac{1}{2}(4)(5)^2$   
 $x = (0 + 50 + 50) = 110 \text{ m}$   
Ex 2) Use  $x_f = x_i + \frac{1}{2}(v_i + v_f)t$  (C. 2.15)  
 $100 = 2a + \frac{1}{2}(5 + v_f)5$   
 $2(100 - 20) = 25 + 5v_f$   
 $160 - 25 = v_f$   $v_f = \frac{135}{5} = 27 \text{ m/s}$   
 $0r v_{avg} = \frac{ax}{\Delta t} = \frac{30\pi}{95} = 16^{n/3} \text{ (defin. of vau)}$   
 $and v_{avg} = \frac{v_i + v_f}{2}$  (B, 2.14)  
 $v_{avg} = \frac{10 + 46}{2} = \frac{1}{2}(5 + v_f)5$   
Ex3) Use  $v_{avg} = \frac{v_i + v_f}{2}$  (B, 2.14)  
 $v_{avg} = \frac{10 + 46}{2} = \frac{1}{2}(5 + v_f)5$   
Ex4) Use  $v_{avg}^2 = v_{avg}^2 + 2a(y_f - y_i)$  (D, 2.17)  
 $v_{avg} = \frac{10 + 46}{2} = \frac{1520}{17.6} = \frac{7625 \text{ m}}{17.6}$   
Ex5) Use  $v_f = v_i + at$  (A, 2.13)  
 $v_f = -5 + 2l = + 16^{n/3}$  (right)