2-1)
$x_i = 0$ (our choice of origin)
$x_f = ?$
$v_i = 8$ m/s
$v_f = 17$ m/s
$a = ?$
$t = 3$ sec

a) $a = (v_f - v_i)/ t = (17 - 8)/3 =$ $+3\ m/s^2$

b) three approaches:

$x = x_i + v_i t + {}^1/_2\, at^2 = 0 + 8*3 + {}^1/_2\, 3*3^2 =$ 37.5 m

or

$v_f^2 = v_i^2 + 2a(x - x_i) \Rightarrow x = x_i + (v_f^2 - v_o^2)/2a = 0 + (17^2 - 8^2)/(2*3) =$ 37.5 m

or, even more directly,

$\Delta x = v_{ave}\, \Delta t = \{[v_o + v_f]/2\}t = \{[8 + 17]/2\}3 =$ 37.5 m (This solution doesn't require knowing the acceleration first.)