By substitution method, we eliminate t, Y = -10(X/20)2 + 30(X/20) + 10 = -(1/40)X2 + (3/2)X + 10

Using quadratic equation,

X1, X2 = 
$$(3/2)/(1/20) \pm \sqrt{((3/2)2 + 1)/(-1/20)}$$
  
= 30 ± 36.1 -> 66.1 m

The distance is 66.1 m when the ball hits the ground.

$$(X + 2)^2 = X^2 + 4X + 4$$
  
 $(X - 3)^2 = X^2 - 6X + 9$   
 $(X - 3)^2 = X^2 - 6X + 9$   
 $(X - 2)^2 = X^2 - 6X + 9$   
 $(X - 2)^2 = (X - 2)^2$   
 $(X - 2)^2 = X^2 - 6X + 9$   
 $(X - 2)^2 = (X - 2)^2$   
 $(X -$ 

Write XX for  $X^2$  in the next section

(1) 
$$13 \times 15 = (14=1)(14+1) = 14^2 - 1$$

(2) 
$$18 \times 12 = (15+3)(15-3) = 15^2 - 3^2 = 225 - 9 = 216$$

(3) 
$$27 \times 17 = (20+7)(10+7) = 200 + 70 + 140 + 49 = 459$$

 $14^2 = (10+4)^2 = 100+80+16 = 196$  Therefore,  $13 \times 15 = 195$