

Pelotón golpear el piso a -160 pies/s

(29)

$$a = (0.12)t^2 + 0.6t$$

$$\int \Delta v = ((0.12t^2) + (0.6)t) dt$$

$$v = \frac{0.12t^3}{3} + \frac{0.6t^2}{2} + C_1$$

$$v = \frac{0.12t^3}{3} + \frac{0.6t^2}{2} +$$

$$\int x = \int \left( \frac{0.12t^3}{3} + \frac{0.6t^2}{2} \right) dt$$

$$x = \frac{0.12t^4}{3(4)} + \frac{0.6t^3}{2(3)} + C_2$$

$$x = 0.01t^4 + 0.1t^3$$

$$x = 0.01(10)^4 + 0.1(10)^3 = 200 \text{ ft}$$

$$v_f = \frac{1}{25}(10)^3 + \frac{3}{10}(10)^2 = 70 \text{ ft/s}^2$$

La distancia que recorre después de los  
15 de 200 ft, la velocidad final es  
de 70 ft/s<sup>2</sup>

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