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The soccer ball is kicked from and lands at the same height. 16 m/s a) Resolve the initial velocity into components. b) How long was the ball in flight? c) What horizontal distance did the ball travel? d) How high above the start height did the ball get? = U\_cos∂=( Costo 10=(18) Shr40/=  $\dot{y} = V_{ys} + a_y t$ O = 10.3 + Clot10t = 10.3t= (-03 double it ! - $C) \Delta x = V_{x} f$ (2.06) $\frac{1}{V_y} = V_{yo} + 2a_y \Delta y$ 0=10.3<sup>2</sup>+2(-10)oy 0=106.1-20 sy 20 Sy= 106.1







