Quiz 6 b 2000000000000000000000000000000000000
and come to a stop in 4.6 m. a. Find the acceleration of the scooter while braking.
a. Find the acceleration of the scooter while braking.
b. How much time did it take to come to a stop?
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Vo= 5.4mls a.) v = 0 $V = V_{\circ}^{2} + 2ad \checkmark$ $-V_{\circ}^{2} - V_{\circ}^{2}$ $a = \frac{V^{2} - V_{0}^{2}}{2d}$ $= \frac{0^{2} - 5.9^{2}}{2(9.6)}$ $V_0 = 5.4 mls$ a = ? d = 4.6m $\frac{V^2 - V_0^2}{2d} = \frac{2d}{2d}$ + = $= -3.170 \text{ m/s}^2$ = -3.2 m/s^2 $V = V_0 + a + v_1$ b. -V. -Vo $V - V_0 = at \qquad t = V - V_0 = 0 - 5.4 = 1.7s$