length problem A NOT drawn to soule

$$\frac{dx}{dt} = -\int \frac{ft}{Sex}$$

$$\frac{df}{dt} = \frac{dx}{dt} + \frac{ds}{dt} = \frac{-15}{7} \frac{ft}{sec} + \frac{-5}{7} \frac{ft}{sec} \approx -7.14 \frac{ft}{ft}$$

$$\frac{ds}{dt} = \frac{3}{7} \times 1 = \frac{3}{7} \left(\frac{5x}{64}\right) \text{ substitute}$$

$$\frac{ds}{dt} = \frac{3}{7} \left(-5\right) = \frac{-15}{7} \frac{ft}{se} \text{ shadow}$$

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Change in

$$\tan \theta = \frac{opp}{odj} = \frac{20^{64}}{x+s} = \frac{66+}{5}$$

$$\frac{145 = 6x}{14}$$

= 3 dp = -50 ft = -714 ftec

$$\frac{ds}{dt} = \frac{1}{at} \left( \frac{3}{3} \right)$$

$$\frac{ds}{dt} = \frac{3}{7} \times 1 = \frac{3}{7} \left( \frac{sx}{dt} \right)$$
 substituting the state of the

$$\frac{dS}{dt} = \frac{3}{7}(-5) = \frac{-15}{7}$$
 is shadow length