Prolitroblem#7
$$a = 0.5$$
 $V_{4}^{2} = V_{0}^{2} + 2a(displacement)$
 $V_{4}^{2} = 0.5$

An physics

 $V_{4}^{2} = V_{0}^{2} + 2a(displacement)$
 $V_{4}^{2} = 0.5$

And $h = 50, a = .0025$
 $h = 457, V_{6} = .0025$
 $v = 0.25$
 $v = 0.25$
 $v = 0.25$
 $v = 0.25$
 $v = 0.45$
 $v = 0.45$

$$\frac{15}{100} = .0025$$

$$0 = V_0^2 + 2(.0025) = 0.5 \text{ KM/s}$$

$$-V_0 = \frac{1}{2} \cdot 0.5 \text{ KM/s}$$

$$0 = V_0^2 + 2(0.0025) = 0.15$$

$$-V_0 = -\sqrt{.15} = 0.39 \text{ Km/s}$$
Original velocity, as height gets
$$0 = \sqrt{.15} = 0.39 \text{ Km/s}$$

Original velocity, as height gets lower, must be smaller + smaller for 4 to be zero & the ship to land. So the maximum vehicity must be lengt between + 0.5 km/s if the height goes from

50 De and we want the ship to land safely.