Prolitroblem#7

$$a = \sqrt{2}$$
 $\sqrt{2}$
 $\sqrt{2}$

$$\frac{125}{100} = .1025$$

$$-\sqrt{v^2 + 2(.1025)} = 0$$

$$-\sqrt{v^2 + 2(0.0025)} = 0$$

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$$-\sqrt{v^2 - (0.0025)} = .15$$

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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 me want the ship to land safely.