Note Title 27/09/2012

The Space shuttle could blast off and reach an altitude of 2.0 km in 15.0 s.

Assuming that the acceleration was uniform:

- a. What is the acceleration of the shuttle?
- b. What was its velocity at this point?



a.)
$$d = \sqrt{s}t + \frac{1}{z}at^{2}$$

 $2d = \frac{1}{z}at^{2} \cdot 2$
 $2d = at^{2}$
 $t^{2} + t^{2}$
 $a = 2d = 2(2000m) = 17.78 m/s^{2}$
 $t^{2} = (15.0s)^{2}$
 $t^{2} = 18 m/s^{2}$

extra sig figs
through your
cal culations