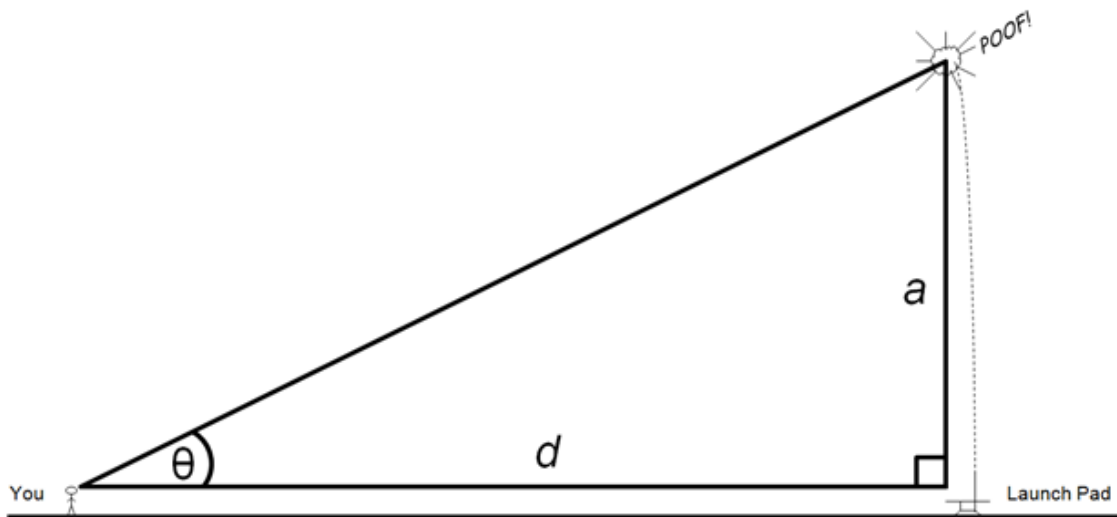
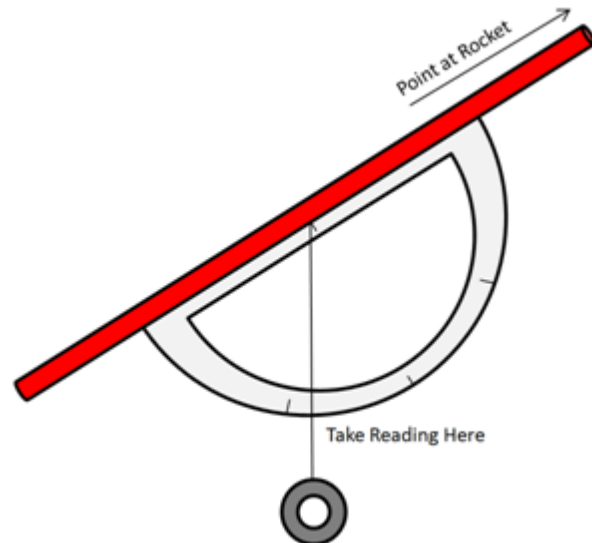


# How high does it fly?



From <http://www.hobbizine.com/rocketaltitude.html>



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How far were you from the Launch Pad (feet)	Distance (d):
What was the angle you read off the protractor?	Angle ( $\theta$ ):
Look at the back of this paper and read what the Tangent of this angle will be.	Tangent of Angle ( $\tan(\theta)$ ):
Height of the rocket can be estimated by multiplying the distance from the launchpad and tangent of angle.	$a = d * \tan(\theta)$ :

## Chart of Tangent of Angles

Angle	Tangent of Angle
0.0	0.000
2.5	0.044
5.0	0.087
7.5	0.132
10.0	0.176
12.5	0.222
15.0	0.268
17.5	0.315
20.0	0.364
22.5	0.414
25.0	0.466
27.5	0.521
30.0	0.577
32.5	0.637
35.0	0.700
37.5	0.767
40.0	0.839
42.5	0.916
45.0	1.000
47.5	1.091
50.0	1.192
52.5	1.303
55.0	1.428
57.5	1.570
60.0	1.732
62.5	1.921
65.0	2.145
67.5	2.414
70.0	2.747
72.5	3.172
75.0	3.732
77.5	4.511
80.0	5.671
82.5	7.596
85.0	11.430
87.5	22.904
90.0	infinity