

Problem Set Three

Exercises

5:4: 3,8,9,**23,41,42**,49,**51,56,57**

5.5:**2,3,12,13,15,27**

5.6:**3,6,7,11,15,20,23**

Problems

(1) A man watches a balloon rise from a point 50 feet away. Express the angle θ of elevation of the balloon, from the man's viewpoint, as a function of the height h of the balloon in feet. Then find the derivative of θ with respect to h .

(2) If you missed the problem on the first quiz, write out the correct solution here: