Alg 2 6.2 Quiz Review Name_____Hr__

Graphing Calculator Section

1. The dimensions of a box is given as width of x - 5 , length of x - 6 and height of x.
   a) Write equation to model the volume.
   b) Find the maximum volume that the box could contain.
   c) Find the x value that will maximize the volume.
2. Find the relative minimum and maximum values of $y=-2x^3-14x^2+2x+84$
   Include a window and sketch.

Non-Graphing Calculator Section

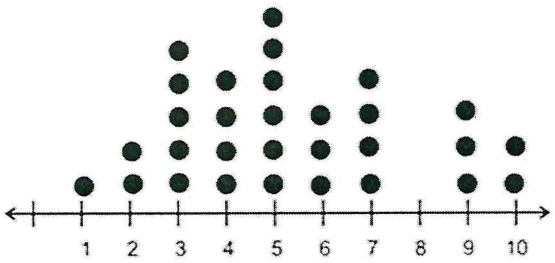
3. Given the polynomial, find the zeros, state any multiplicities, and sketch graph.
   a) $y=x(x+4)^3(x-3)$ b) $y=(x-2)(x+3)^2(x+1)^3$

For each given polynomial,
a) Find the zeros of the function
b) The Multiple and multiplicity if any
c) Sketch the graph

4) $y=x^4-10x^3+25x^2$ 5) $y=10x^3-15x^2$

Stats Quiz Review

1) Use the dot plot below to answer questions a – d.



a) Find the mean

b) Find the median

c) Find the range

d) Find the mode.

2) Five tests were collected at random. Test 1 scored 86, test 2 scored 92, test 3 scored 78, test 4 scored 76. What was the score on test 5 if the mean of the tests was 82?