**112. *Decreasing cube.*** Each of the three dimensions of a

cube with sides of length *s* centimeters is decreased by a

Whole number of centimeters. The new volume in cubic

Centimeters is given by V(s)= s^3-13s^2+54s-72

**a)** Find *V*(10).

**b)** If the new width is *s* - 6 centimeters, then what are the

new length and height?

**c)** Find the volume when *s* = 10 by multiplying the length, width , and height.