(7.) (10 points) For some positive constant C, a patient's temperature change, T, due to a dose, D, of a drug is given by

$$T = f(D) = \left(\frac{C}{2} - \frac{D}{3}\right)D^2.$$

(a) What dosage maximizes the temperature change?

(b) The sensitivity of the body to the drug is defined as dT/dD. What dosage maximizes sensitivity?