(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 $d T / d D$. What dosage maximizes sensitivity?

