Mathematics 122

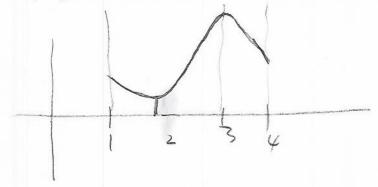
Quiz #24

Name: Key

You must show your work to get full credit.

(1) Draw the graph of a function defined on $1 \le x \le 4$ that has a global minimum at x = 2, a global maximum at x = 3 and no other critical points.

ZNHS



For some positive constant the change, T, in a patient's temperature when given a dosage, D, of a drug is

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

What dosage maximizes the temperature change?

$$T = CD - \frac{D^2}{2}$$

$$D =$$

to find the critical point computed

dt = C - 2D = C - D

is D = C

