$$y = 2x^3 - 9x^2 + 12x$$
. at t.p. $\frac{dy}{dt} = 0$.

$$\frac{dy}{dx} = 6x^2 - 18x + 12$$
. at t-p $\frac{dy}{dx} = 0$ SO $0 = 6x^2 - 18x + 12$

So
$$0 = 6x^2 - 18x + 12$$

 $0 = x^2 - 3x + 2$
 $= (x-2)(x-1)$.

at burning paint =>
$$x=1$$
 $y=2.13-9.12+12.1$

$$\frac{d^2y}{dx} = 12 \times -18$$

gut un
$$\chi=1$$
 $\frac{dy}{dx}=-6$ -ve : max.

$$z=2$$
 $y=2.2^3-9.2^2+12.2$

(1,5) max (2,4) min.