f: 4= X-1 Durčit, kde je rostouci/ klesovici/extremy 2) wreit konvexitu/konkowity inflexmi body 3) graf

M(f)= (-00; 1) U(1;+00 · y = (x) · (x-1) - x2 (x-1)  $\frac{0}{2x^{2}(x-1)-x^{2}-1}(x-1)^{2}$  $2(x-1)^2$   $P(x-1)^2$ = X-2X = X(X-2) = 0 < ,

$$f'(x) = \frac{x^2 - 2x}{(x - 1)^2}$$

$$f''(x) = \frac{(x^2 - 2x) \cdot (x - 1)^2 - (x^2 - 2x)(x - 1)^2}{((x - 1)^2)^2}$$

$$= \frac{(2x - 2)(x - 1)^2 - (x^2 - 2x) \cdot 2(x - 1)}{(x - 1)^4}$$

$$= \frac{2(x - 1)^3 - 2x(x - 2)(x - 1)}{(x - 1)^4}$$

$$= \frac{(x - 1)^4}{2(x - 1)(x - 1)^2} - \frac{(x - 1)^4}{(x - 1)^3}$$

$$= \frac{(x - 1)^{43}}{(x - 1)^{33}}$$

$$= \frac{(x - 1)^{43}}{(x - 1)^3}$$

(X-413 hemaines