



E) F(0) = \(\frac{4x^3-20}{9+4x^4} \) dy = \(\frac{4}{16} \int \frac{16}{9+4x^4} - \frac{2\cdot 3}{9\cdot 4} \int \frac{4}{3} \to dx \) J=R = 1. lu (9+4x2) - 1. Anchan 25 + E.

l.) G(x) = 5 x. Vo'-2]=] VZ; +0 [m J=]-0; -VZ[. cht de variable: x = \frac{1}{t} \infty plp = -\frac{1}{t^2} \dt; \ b^2 - 2 = \frac{1}{t^2} - 2 = \frac{1}{t^2} - 2 = \frac{1}{t^2}. G(r) = \(\frac{(-\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}

= - 1. Arenin VI + k.

A) H(x)= Se mi(lux) dp u(k)=sui(lux) u'(k)= 2 ces(lux) U'(19) = 1 1(x) = x H(x) = [10 mi (lus)] = - [e us (lus) elp 12(x) = ces(lux) U(x) = 1 U(x) = x H(x) = 0 - Si es(lux) dx H(x) = - [to eno(lux)] = - 4(to) (=) 24(to) = - (-et -1) (=) 4(to) = 2(e £+1).

logo-e (x+4) + logo-3 (x-e) \$ 2-logo-2 2 R) bailence! • k-2>0 pt x = 2 # 1 • k-3>0 pt k-3 # 1 • log (k-2) # 0 (=> x > -4

· 6+4>0 (=) x>-4

(1) existe 4x 613; +0t-14).

Résolution: (J) (=) ly 6-2 (6+4) + log 5-2 (5-3) = ly 5-2 (6-2)2 + lyx-2 2 (cu effet: ly ax = lua = lua = lug a).

> 1 (=) lyp-2 (x+4)(x-3) = lypo-2 2.(x-2)2 (=) (p-4)(x-3) \(\frac{1}{2}\)(b-2)^2

ear light (able \$73) struce light of sur Rx (=) x + 6x -28 ≤ 0 (=) -3-√37 ≤ x ≤ -3 + √37.

\$=]3, - 3+ 13+].

b.) fir) = tou (2. Arckon 1) définie ou R*. y= tau (= Archan =) = tana (o (cory (o). be fore: A = 1. Anclant = = = famle et R & J-=; O[. saver! tou de = etama plas: $\frac{1}{\kappa} = \frac{2\gamma}{1-\gamma^2}$ (y 4+ Log - 1=0 e=->+VI+x2 >0 me (å regiler) 6=-x-V1+x- (0 mu R : fw) = -x - V1+x2 (N+ ") = - (wy 42 (N- 3+) - = (a) 424 (a) + 1 (a) 2 (a) + 3 (A + A) At State attack Btal A+ < x 60 0 < 4+9. (1) ex de de 213, ++= [-14] (7-4) = - my = (8-4)(4+4) my (=> 1 (2-4) (2-4) (2-4) 1 1 1 2 + 8 + 12 1 = 8