

a. f.(x) = X, lux co typyme propertion ficx) = x3 6.

a. S3ex + 5 cos x - 10 sec 2xdx = 3ex + 5 sinx - 10 at tan x + c = 30 x + 5 sin x - 10 tan x + C b. Sux + 6 Vx2 dx = 2x2 + HMM & 1x5 $= (2 \cdot 1^2 + \frac{6}{5} \sqrt{15}) - (2 \cdot 0^2 + \frac{6}{5} \sqrt{05})$ $=\left(2+\frac{18}{5}\right)=\frac{28}{5}$

Hitung dy Jika $y = \int_{2}^{x} \frac{2t+5}{\sqrt{t+16}}$ = ingat $\frac{dC}{dx} \int_{2}^{x} f(t) \int_{2}^{x} f(x)$

maka $\frac{dy}{dx} = \frac{dy}{dx} = \frac{dy}{dx} = \frac{2t+5}{\sqrt{x^2+16}} = f(x)$

= 10 f(x) = 2x+5 $= \frac{2 \times + 5}{\sqrt{6 \times \times^2 + 16}}$

a. Nilai ekstrimnip:

@ firsk ujung selang @0125 [-5,-1]

(7) titlk stasioner f(c)=0

+idak punya

titik Stasioner

Q'(y) = 0

Q(y)= 346 V(y+4)2 = 1 (4+11)2 (34)3 = 3 (27 y + 202 y + 432 y 3

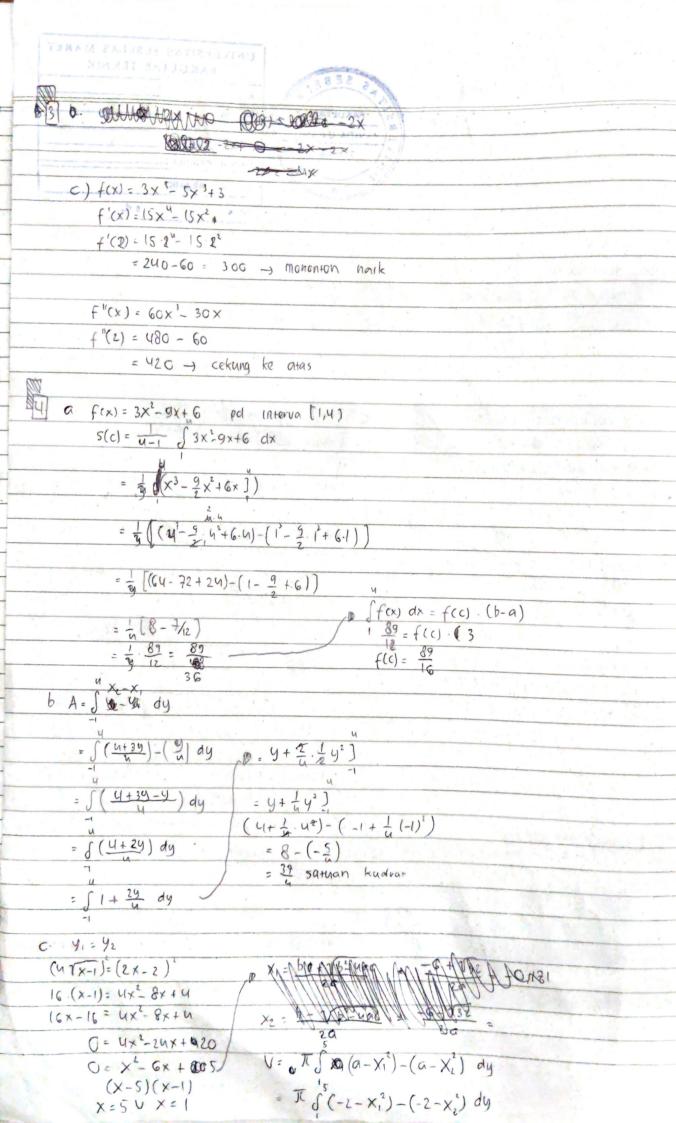
Q'(y) = = (27 ys+ 202 y"+ 432 y") 3 (135 y"+ 80 ly+ 1136 y

Q(4) = 1 (274) + 2029 4 41243) 5 (135 yo + 808 y) + 1296 y')

- CAMEN CHESTAN SANS! J'(y)= (45 94 269.334)+ 432 y2)(2743+202 y + 432 y1)

Q'(y) = 45 yh+ 269,33 y3 + 432 y2 V(2745+ 20244+ 43245)

Q(0) = 3.0 V(0+ 4)2 Q(-1) = 3 · (-1) 7((-1) + 4)2 a(0)=0 - nilai maksimum = -3/9 a notallodaksimu Q(-5) = 0.3. (-5) x(-5)+4)2 @ titik singular = y=0 = -15 / (-1)2 = -15 -> nilai minimum



$$V = \pi \int (-2 - (\frac{u+39}{u})^2 - (-2 - (\frac{u+39}{u})^2) dy$$

$$= \pi \int (-2 - (\frac{(c+2uy+9y^2)}{(c+2uy+9y^2)}) - (-2 - \frac{y^2}{(c+2uy+9y^2)})$$

$$= \pi \int (-32 - (c-2uy-9y^2) - (\frac{y^2-y^2}{(c+2uy+9y^2)}) dy$$

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