Tugas 3

$$\int_{1}^{6} 4x^{2} = 4 \frac{1}{241} x^{2+1} = 4 \frac{1}{3} x^{3} \Big[ = \frac{4}{3} (6)^{3} - \frac{4}{3} (1)^{3} = 286.6$$

$$\int_{1}^{6} 10 \times^{2} = 10 /_{3+1} \times^{3+1} = \frac{10/4}{4} \times 16 = \frac{10/4}{6} = \frac{10/4}{4} \times 16 = \frac{10/4}{4$$

## b. Rema metode roweril (Trapesium)

$$\frac{17 = 6 - 9}{5} = \frac{6 - 1}{0.5} = \frac{5}{0.5} = 10$$

		_
n	f(n) = 4 n2 +	10n2 - Cosn
1	13.45	fo
1.5	42.67	f
2	96.41	f <sub>2</sub>
1.5	182.05	f3
3	706.98	ç 4
9.5	478.68	ts
4	704.65	fa
4.5	992.46	£7
2	1349.71	Co
3.0	24 7 3	1784.04 G
6	2303.07	Fu

Mainer: Ridher Supotra

Stb: 2221110

2. Carilah nilai turunam dari fungsi berilut; x = 1.2 f(x) = 4x2 + 10x3 - cosx

a. Cara harberes

$$f(x) = 4x^{2} + 10x^{3} - \cos x$$
  
 $f'(x) = 4.2x^{2-1} + 10.7x^{3-1} + \sin x$   
 $= 0x + 30x^{2} + \sin x$ 

$$f'(1/2) = 8(1/2) + 30(1/2)^2 + 5in(1/2)$$
  
- 53.73

$$f(x) = \frac{b}{f(x^{i+1}) - f(x^{i})}$$