P(+) = - + + 33 + - 216+ + 1000 + [0,24] a) P(0) = -0+33.0-216.0+1000 = 1000MW 1000MW. 24 = 24000MW b) 5- +33+ -216+ +1000 $= \int_{-4}^{24} (-t^3) + \int_{-4}^{24} (33t^3) - \int_{-4}^{24} (216t) + \int_{-4}^{24} (1000)$ $= \int_{-4}^{24} (-t^3) + \int_{-4}^{4} (33t^3) - \int_{-4}^{24} (216t) + \int_{-4}^{4} (1000t) + \int_$ o + 4 3 2 = (-4.24 + 11.24 - 108.24 +1000.24) - 0 = 309/2 MW c) /-4t + 11t - 108t + 1000t = (-4.16+11.16-108.16+1000.16) (=) - (-4.8 + 11.8 - 108.8 + 1000.8) = 11328 MW

5.
$$\sqrt{(t)} = 5 \text{ of } + 130$$
 $(0 \le t \le 4)$

$$\int 50t + 130 t$$

$$= \int 25t^2 + 130t$$

$$1,5$$

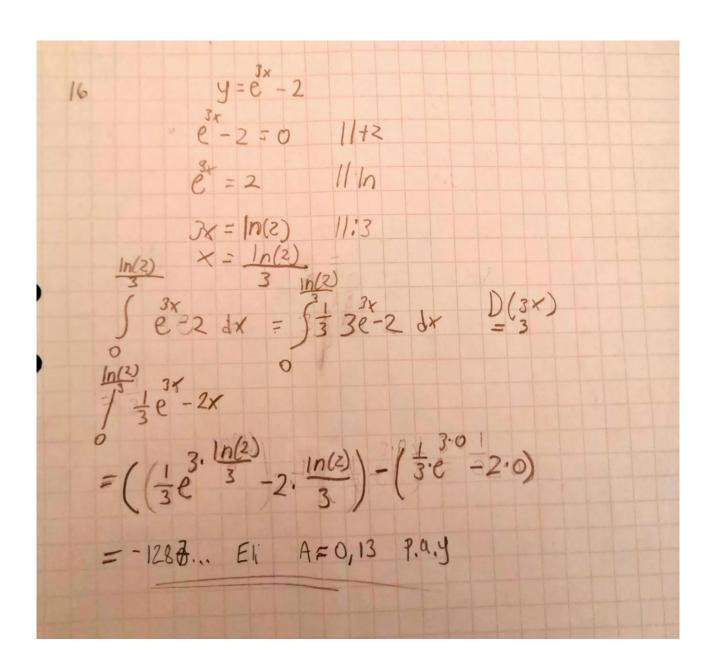
$$= (25 \cdot 3^2 + 130 \cdot 3) - (25 \cdot 1, 5^2 + 130 \cdot 1, 5)$$

$$= 363, 75 \text{ m}^3$$
15. $y = x^2 + 1$

$$\int x^2 + 1 = \int \frac{1}{3}x^3 + x$$

$$= (\frac{1}{3} \cdot 1 + 1) - (\frac{1}{3} \cdot (-1)^3 + (-1))$$

$$= 2,666... (P.a.y) \approx 2,7 (P.a.y)$$



```
19. f(x) = 6x - 4x^2 + 1 g(x) = 2x^4 - x^2 + 2
             6x^{4}-4x^{2}+1=2x^{4}-x^{2}+2   11-1   11-2x^{4}   11-2x^{4}   11-2x^{4}   11-2x^{4}   11-2x^{4}   11-2x^{4}   11-2x^{4}
               Otelaan nolla kohjat haskimella;
      2 X=1 tai x=-1
     $ [ f(x) - g(x)] 1x
   = \int (6x^{4} - 4x^{2} + 1) - (2x - x^{2} + 2)
    = -2,4 Eli A= 2,4 P.a.9
21 y=x^2-2 y=x^2 x=0 x=3
  \int [5(x) - 9(x)] dx
\int (x^{2}) - (x^{2} - 2) = 6 dm^{2}
     V= A·h = 62m2.0,05 dm = 0,30 dm
    M=PV = 0,30.10 m3. 7800 19 = 2,3489
```