

 $\int_{a}^{b} f(x) dx = \left[F(x) \right]_{a}^{b} f(b) - F(a)$ $\int_{a}^{b} f(x) dx = \left[F(x) \right]_{a}^{b} f(b) - F(a)$ 5 f(x) dx = [f(x)] = f(c)- F(b) $\int_{a}^{b} f(x)dx = \int_{a}^{b} f$ $F(c)-F(n) = [f(x)]_{\alpha}^{c} = \int_{\alpha}^{\alpha} f(x) dx$ D SIXIdx = S-xdx+Sxdx = - Sxdx+Sxdx= $*\left[\frac{x^{2}}{2}\right]_{-1}^{0}, \left[\frac{x}{2}\right]_{-1}^{1} = -(0-\frac{1}{2}) * (\frac{4}{1}-0) = 1$ 3) 5 (1+ |x-3|)2 dx = 53 (1-(x-3))2 dx+ 5 (1-x-3)2 3 35 (16-8x-x2) dx = [16x-4x2 + x3] = (16,3-4,7+9) - 233 $\frac{3}{3}$ $(x^2 + 4x + 4) dx = \left[\frac{x^3}{3} + 2x^2 + 4x\right]^{\frac{14}{3}}$ 1) $\int_{0}^{x} f(-x) dx = \int_{0}^{y} dx = \int_{0}^{x} f(u) - dy = -\int_{0}^{x} f(u) du = \int_{0}^{x} f(u) du = \int_$ = G + (a) dy = [F(y)] = F(a) - F(-b) = - F(-b) + F (-a) 3) - 5 f(x) dx = 5 f(x) dx - 5 f(x) dx = -6 5 f(-x) dx - 5 f(x) dx (+ (e 2019)) 100 KD F (0)); 30K (40 O) (20)

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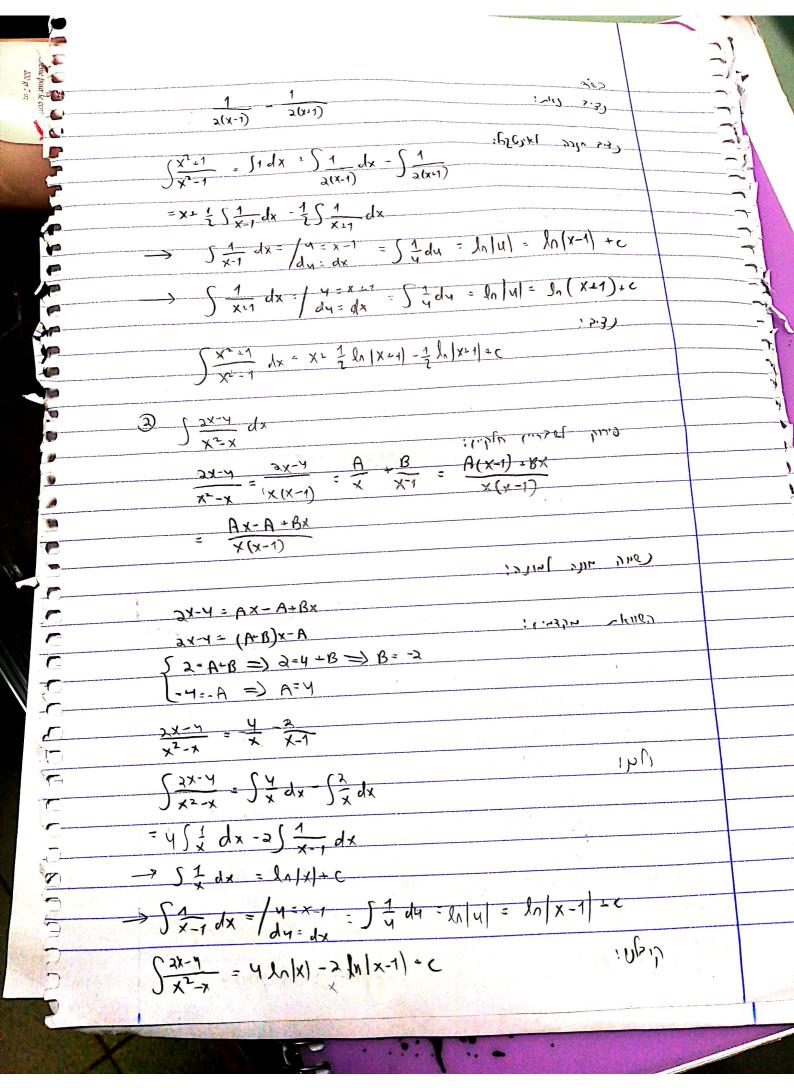
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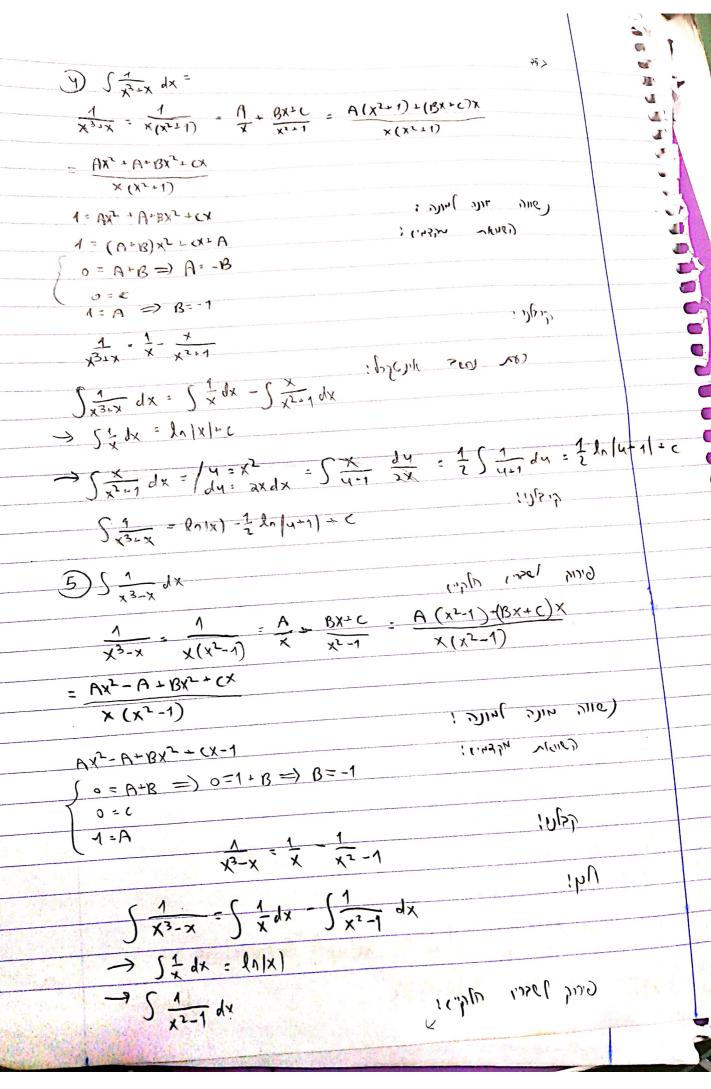
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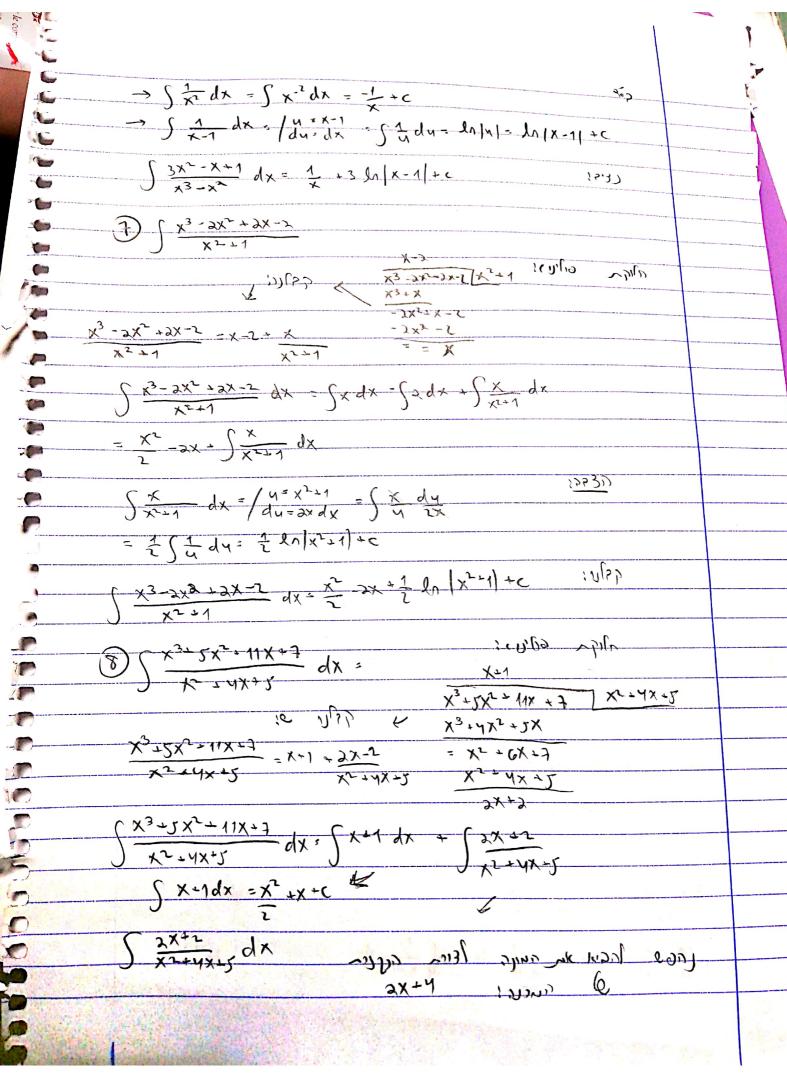
(+ (e 2019)) 100 KD F (0); 40K (40 O)

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(+ (e 2019)) 100 KD F (0); 40K Jf(x) dx = Jf(x) dx = Jf(x) dx (ii) 52 22 dx = 25 2x2 dx = 2 [x3] 2 = 2 (3-0) = 16







3) 51 1 dx = / 4 = -1 1 = -1 1 = -1 1 dy = 05 1 du = 5 1. en du = 6 en du: /t= en du
-15 en du = 6 en du Gent 10201 19611) 1 1=At+A+Bt region signed +2++ dt = 15 1 - [ln | t |] - [ln | t |] $(o-(-1)-(ln(a)-ln(l_{e}+1)))=1-ln(2)+ln(e^{-2}1)=0.6(201)$ 0