



(5)

BARTOSZ MAZINOWSKI

2005342

06.05.2021

~~15~~

(6)

$$a) \int x^4 + 3x^2 - 3x + 1 \, dx$$

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

$$\int x^4 dx + \int 3x^2 dx - \int 3x dx + \int 1 dx$$

$$\frac{x^5}{5} + x^3 - \frac{3x^2}{2} + x$$

$$\frac{x^5}{5} + x^3 - \frac{3x^2}{2} + x + C$$

$$b) \int (x-1)(x-3) \, dx$$

$$\int x^2 - 3x - x + 3 \, dx$$

$$\int x^2 - 4x + 3 \, dx$$

$$\int x^2 dx - \int 4x dx + \int 3 dx$$

$$\frac{x^3}{3} - 2x^2 + 3x + C$$

