

Freitag, 27. März 2020

$$\int (x) - \frac{1}{2}x^2 - 3x$$

$$f(x) = \frac{5}{4}(x_3 - 6x + 0)$$

$$\frac{6}{2} + \sqrt{\left(\frac{-6}{2}\right)^2} + 6$$

$$x_1 = 0$$
 $x_2 = 6$

$$\begin{pmatrix} \frac{1}{2} \times -3 \times \\ \frac{1}{2} \times -3 \times \\ \frac{1}{2} \times -\frac{1}{2} \times -\frac{1}{2} \times +c \end{pmatrix}_{0}^{6}$$

$$\frac{0.5}{3} \cdot 6^{3} - \frac{3}{2} \cdot 6^{3} + 2 - \frac{0.5}{3} \cdot 0^{3} - \frac{3}{2} \cdot 0^{3} + 2 - \frac{1}{2} \cdot 0^{3} + 2 - \frac{1}$$

b)
$$(x) = \frac{1}{2} \times \frac{4}{4} \times \frac{3}{4} \times \frac{3}{4$$

$$\begin{array}{c} 3 \\ \times = 0 \\ \end{array}$$

$$\begin{cases}
\frac{1}{3}x^{4} + x^{3} & \frac{1}{3}x^{4} + \frac{1}{3}x^{4} \\
\frac{1}{3}x^{4} + x^{3} & \frac{1}{3}x^{4} + \frac{1}{3}x^{4} \\
\frac{1}{3}x^{4} + x^{3} & \frac{1}{3}x^{4} + \frac{1}{3}x^{4} \\
\frac{1}{3}x^{4} + \frac{1}{3}x^{4} + \frac{1}{3}x^{4} + \frac{1}{3}x^{4} + \frac{1}{3}x^{4} \\
\frac{1}{3}x^{4} + x^{3} & \frac{1}{3}x^{4} + \frac{1}{3}x^{4} + \frac{1}{3}x^{4} + \frac{1}{3}x^{4} \\
\frac{1}{3}x^{4} + x^{3} & \frac{1}{3}x^{4} + \frac{1}{3$$

C)
$$f(x) = -x^4 + 6x^3 - 9x^4$$

$$\{(x)=-x_y\cdot(x_y-ex+2)$$

$$\frac{6}{2} + \sqrt{\left(-\frac{6}{2}\right)^2 - 9}$$

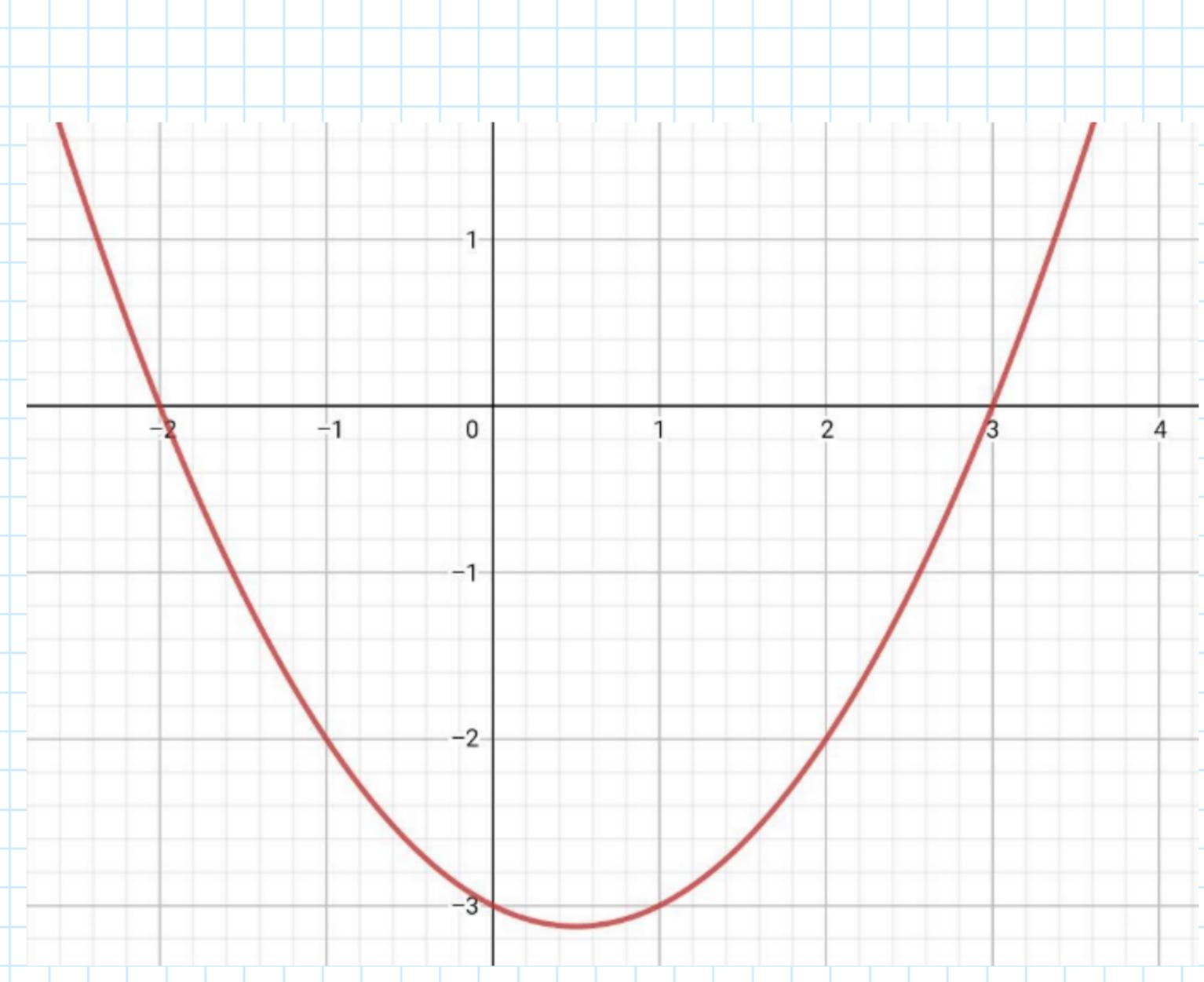
$$\chi = 3 \qquad \qquad \chi_2 = 3 \qquad \qquad \chi_3 = 0 \qquad \times_4$$

$$\int_{3}^{0} (-x^{4} + 6x^{3} - 3x^{2}) dx \left[\frac{-1}{5} x^{5} + \frac{6}{4} x^{4} - \frac{9}{3} x^{3} + c \right]_{3}^{0}$$

$$-81 - 0 = -81 + 6$$

d)
$$f(x) = \frac{1}{2} \times^2 - \frac{1}{2} \times -3$$

 $f(x) = \frac{1}{2} (x^2 - 1 \times -6)$
 $\frac{1}{2} \pm \sqrt{(\frac{-1}{2})^2 + 6}$
 $x_1 = 3$ $x_2 = -2$



$$\int_{3}^{-2} \left(\frac{1}{2}x^{2} - \frac{1}{2}x - 3\right) dx \left[\frac{0.5}{3}x^{3} - \frac{0.5}{2}x^{2} - 3x + c\right]_{3}^{-2}$$

$$\left(\frac{0.5}{3} \cdot (-1)^{3} - \frac{0.5}{2} \cdot (-1)^{2} - 3 \cdot (-1) + c\right) \cdot \left(\frac{0.5}{3} \cdot (3)^{3} - \frac{0.5}{2} \cdot (3)^{2} - 3 \cdot (3) + c\right)$$

$$73.17 - \left(-38.08\right) = 24.087 \mp 6$$