$$\int \frac{-x+3}{x^3-2x^2+3x} dx = \int \frac{-x+7}{x(x^2-2x+3)} dx$$

$$\left(-\frac{x+3}{x(x^2-2x+3)} = \frac{A_1}{x} + \frac{(C_1x+D_1)}{(\alpha^3-2x+3)} \times (x^2-2x+3) \right)$$

$$-x+3 = A_1(x^2-2x+3) + C_1x^2 + D_1x$$

$$-x+3 = A_1(x^2-2x+3) + C_1x^2 + D_1x$$

$$-x+4 + D_1 = -1$$

$$3A_1 = 3$$

$$D_1 = -1 + 2A_1$$

$$D_1 = -1$$

$$3A_1 = 3$$

$$D_1 = -1$$

$$C_1 = -A_1$$

$$C_2 = -A_1$$

$$C_3 = -A_1$$

$$C_4 = -A_1$$

$$C_4 = -A_1$$

$$C_4 = -A_1$$

$$C_4 = -A_1$$

$$C_1 = -A_1$$

$$C_1 = -A_1$$

$$C_1 = -A_1$$

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$$C_2 = -A_1$$

$$C_1 =$$