Wednesday, January 23, 2019 9:36 AM

(7) $\int \frac{x^3+x+1}{x-2}\,dx$

$$x-2 \overline{)\, x^3 + x + 1}$$

$x^2 + 2x + 5$

$x^3 - 2x^2$

$2x^2 + x + 1$

$2x^2 - 4x$

$5x + 1$

$5x - 10$

$11$

$$\int x^2 + 2x + 5 + \frac{11}{x-2}\,dx$$

$$\frac{1}{3}x^3 + x^2 + 5x + 11\ln|x-2| + C$$