12. hét anal gyak

$$\frac{1}{\sqrt{1+3}} \left(\frac{1}{\sqrt{1+3}} + \frac{1}{\sqrt{1+3}} \right) dx = \frac{1}{\sqrt{1+3}} \left(\frac{1}{\sqrt{1+3}} + \frac{1}{\sqrt{1+3}} \right) + C$$

$$\frac{1}{\sqrt{1+3}} = \frac{1}{\sqrt{1+3}} + \frac{1}{\sqrt{1+3}}$$

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$$\frac{3}{\sqrt{x^{2}+2x^{2}}} dx = \int \frac{1}{\sqrt{x}} + \frac{1}{\sqrt{x}} + \frac{1}{\sqrt{x}} dx = \frac{1}{2} - x^{2} + \frac{1}{\sqrt{x}} \ln |x| + \frac{1}{\sqrt{x}} \ln |x|$$

$$\int \frac{x+1}{(x-1)^2(x-3)} dx = \int \frac{-1}{(x-1)^2} + \frac{-1}{x-1} + \frac{1}{x-3} dx = \frac{1}{x-1} - \ln|x-1| + \ln|x-1|$$

$$\frac{\cancel{\kappa}+1}{(\cancel{\kappa}-1)^2(\cancel{\kappa}-3)} = \frac{\cancel{A}}{(\cancel{\kappa}-1)^2} + \frac{\cancel{b}}{(\cancel{\kappa}-1)} + \frac{\cancel{C}}{\cancel{\kappa}-3}$$

$$\begin{cases} B+(=0) = 3B=-C \\ A-4B-2C=1 - 3A+2C=1 = 3A=1-2C \\ -3A+3B+C=1 - 3-3+6(-3C+C=1) \end{cases}$$

$$C=1$$
 $B=-1$

$$\int \frac{x^{7}-17^{3}}{x^{4}-16} dx = \int x +$$

$$\frac{x^5 - 15x}{x^4 - 16} = x + \frac{x}{x^4 - 16}$$

$$\frac{3}{34-16} = \frac{3}{(x-2)(x+2)(x^2+4)} = \frac{A}{x+2} + \frac{1}{10} + \frac$$