

$$\int \frac{dx}{x^2+3x-4}$$

11.10.137  
A

$$\frac{1}{5} \ln \left| \frac{x-1}{x+4} \right| + C$$

11.10.137

$$\int \frac{x}{x^2-5x+6} dx$$

B

$$-2 \ln |x-2| + 3 \ln |x-3| + C$$

11.10.137

$$\int \frac{11x+17}{2x^2+4x-4} dx$$

B

$$\frac{5}{2} \ln |2x-1| + 3 \ln |x+4| + C$$

11.10.137

$$\int \frac{dx}{(x-1)(x+3)(x-3)}$$

A

$$-\frac{1}{6} \ln |x-1| + \frac{1}{15} \ln |x+2| + \frac{1}{10} \ln |x-3| + C$$

11.10.137

$$\int \frac{2x^2-9x-9}{x^3-9x} dx$$

B

$$\ln \left| \frac{x(x+3)^2}{x-3} \right| + C$$

11.10.137

$$\int \frac{3x^2-10}{x^2-4x+4} dx$$

B

$$3x + 12 \ln |x-2| - \frac{2}{x-2} + C$$

11.10.137



$$\int \frac{x^3}{x^2-3x+2} dx$$

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(2)

$$\frac{1}{2}x^2 + 3x - \ln|x-1| + 2\ln|x-2| + c \quad \text{EVAL}$$

$$\int \frac{x^5 + 2x^2 + 1}{x^3 - x} dx$$

8

$$\frac{1}{3}x^3 + x + \ln \left| \frac{(x+1)(x-1)^2}{x} \right| + c \quad \text{EVAL}$$

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

9

$$3\ln|x| - \ln|x-1| - \frac{5}{x-1} + c \quad \text{EVAL}$$

$$\int \frac{x^2 + x - 16}{(x+1)(x-3)^2} dx$$

10

$$\ln \frac{(x-3)^2}{|x+1|} + \frac{1}{x-3} + c \quad \text{EVAL}$$

$$\int \frac{2x^2 - 1}{(4x-1)(x^2+1)} dx$$

11

$$-\frac{7}{34} \ln|4x-1| + \frac{6}{17} \ln(x^2+1) + \frac{3}{17} \tan^{-1} x + c \quad \text{EVAL}$$

$$\int \frac{x^3 - 3x^2 + 2x - 3}{x^2 + 1} dx$$

12

$$\frac{1}{2}x^2 - 3x + \frac{1}{2} \ln(x^2+1) + c \quad \text{EVAL}$$