

- a. $\int \frac{18}{x^2 - x - 20} dx$
- b. $\int \frac{9x - 8}{(x - 3)(2x - 5)} dx$
- c. $\int \frac{2x - 1}{(x + 1)^3} dx$
- d. $\int \frac{x^2 - x + 4}{(x + 4)^3} dx$
- e. $\int \frac{8x - 4}{x^3(2x - 4)} dx$
- f. $\int \frac{5x^2 + 20x + 6}{x^3 + 2x^2 + x} dx$
1. $\int \frac{x - 1}{x^2 + x} dx$
2. $\int \frac{1}{x(2x + 3)} dx$
3. $\int \frac{5x - 2}{(x - 2)^2} dx$
4. $\int \frac{3x + 6}{x^2 + 18x + 81} dx$
5. $\int \frac{2x^2 - 3}{x^3 + 6x^2} dx$
6. $\int \frac{x - 4}{2x^3 + 16x^2 + 32x} dx$
7. $\int \frac{x + 2}{2x^2 - x} dx$
8. $\int \frac{3x + 10}{x^2 + 2x} dx$
9. $\int \frac{1}{(x + 1)(x + 2)(x + 3)} dx$
10. $\int \frac{x + 1}{x^2 - 16} dx$
11. $\int \frac{x - 1}{x^2(x + 1)} dx$
12. $\int \frac{x + 4}{x^2(x + 1)^2} dx$

Respuestas

- a.** $2 \ln|x - 5| - 2 \ln|x + 4| + C$
- c.** $-\frac{2}{(x+1)} + \frac{3}{2(x+1)^2} + C$
- e.** $\frac{3}{4} \ln\left|\frac{2x-4}{x}\right| + \frac{3}{2x} - \frac{1}{2x^2} + C$
- 1.** $-\ln|x| + 2 \ln|x + 1| + C$
- 3.** $5 \ln|x - 2| - \frac{8}{x-2} + C$
- 5.** $\frac{1}{12} \ln|x| + \frac{1}{2x} + \frac{23}{12} \ln|x + 6| + C$
- 7.** $-2 \ln|x| + \frac{5}{2} \ln|2x - 1| + C$
- 9.** $\frac{1}{2} \ln|x + 1| - \ln|x + 2| + \frac{1}{2} \ln|x + 3| + C$
- 11.** $2 \ln|x| + \frac{1}{x} - 2 \ln|x + 1| + C$
- b.** $19 \ln|x - 3| - \frac{29}{2} \ln|2x - 5| + C$
- d.** $\ln|x + 4| + \frac{9}{x+4} - \frac{12}{(x+4)^2} + C$
- f.** $6 \ln|x| - \ln|x + 1| - \frac{9}{x+1} + C$
- 2.** $\frac{1}{3} \ln|x| - \frac{1}{3} \ln|2x + 3| + C$
- 4.** $3 \ln|x + 9| + \frac{21}{x+9} + C$
- 6.** $-\frac{1}{8} \ln|x| + \frac{1}{8} \ln|x + 4| - \frac{1}{x+4} + C$
- 8.** $5 \ln|x| - 2 \ln|x + 2| + C$
- 10.** $\frac{5}{8} \ln|x - 4| + \frac{3}{8} \ln|x + 4| + C$
- 12.** $-7 \ln|x| - \frac{x}{4} + 7 \ln|x + 1| - \frac{3}{x+1} + C$