$$\frac{(x+3)(x-2)}{(x^2+4)(x^3+7)} = \frac{A}{x^2+3} + \frac{B}{x^2+4} + \frac{Cx^2+Dx+E}{x^3+7}$$

$$\frac{(x^2+4)(x^3+7)}{(x^2+4)} = \frac{A}{x^3} + \frac{B}{x^2} + \frac{C}{x} + \frac{D}{4x+1}$$

$$\frac{(x^3)^3(4x+1)}{(x^2+3)^3(x+3)} = \frac{A}{(x^2+5)^2} + \frac{B}{x^2+5} + \frac{C}{x+3}$$

$$\frac{|0 \times^{2} + 24 \times + 8|}{(x^{2} + 3x^{2} + 4x + 12)} = \frac{|A|}{(x^{2} + 3x^{2} + 4x + 12)} = \frac{|A|}{(x^{2} + 4x^{2} + 4x^{2} + 4x + 12)} = \frac{|A|}{(x^{2} + 4x^{2} + 4x^{2} + 4x + 12)} = \frac{|A|}{(x^{2} + 4x^{2} + 4x^$$