Split the Polynomials

1) $\frac{1}{(x+a)(x+b)} = \frac{A}{x+a} + \frac{B}{x+b}$

2) $\frac{1}{(x+a)(x+b)(x+c)} = \frac{A}{(x+a)} + \frac{B}{(x+b)} + \frac{C}{(x+c)}$

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

4) $\frac{1}{(x+a)(x^2+bx+c)} = \frac{A}{x+a} + \frac{Bx+C}{x^2+bx+c}$

5) $\frac{1}{(x^2+ax+b)(x^2+cx+d)} = \frac{Ax+B}{x^2+ax+b} + \frac{Cx+D}{x^2+cx+d}$

6) $\frac{1}{(x+a)(x^2+bx+c)^2} = \frac{A}{x+a} + \frac{Bx+C}{x^2+bx+c} + \frac{Dx+E}{(x^2+bx+c)^2}$

7) $\frac{1}{(x+a)^2(x^2+bx+c)^2} = \frac{A}{x+a} + \frac{B}{(x+a)^2} + \frac{Cx+D}{x^2+bx+c} + \frac{Ex+F}{x^2+bx+c}$