Write the following rational expressions into its partial fraction decomposition

1. $\frac{3}{x^2 + x - 2}$	$\frac{1}{x-1} - \frac{1}{x+2}$
1. $\frac{3}{x^2 + x - 2}$ 2. $\frac{x^2 + 12x + 12}{x^3 - 4x}$	$-\frac{3}{x} - \frac{1}{x+2} + \frac{5}{x-2}$
$ \begin{array}{c c} 2. & \frac{x^3 - 4x}{x^3 - 4x} \\ 3. & \frac{3x}{(x-3)^2} \end{array} $	$\frac{3}{x-3} + \frac{9}{(x-3)^2}$
$4. \ \frac{x+2}{x^2+4x+3}$	$\frac{\frac{1}{2}}{x+3} + \frac{\frac{1}{2}}{x+1}$
$5. \ \frac{3x^2 - 7x - 2}{x^3 + x}$	$\frac{5x-7}{x^2+1} - \frac{2}{x}$
5. $\frac{3x^2 - 7x - 2}{x^3 + x}$ 6. $\frac{2x^3 - x^2 + x + 5}{x^2 + 3x + 2}$	$2x - 7 + \frac{1}{x+1} + \frac{17}{x+2}$
7. $\frac{x-1}{x^3+x^2}$	$\frac{2}{x} + \frac{-1}{x^2} + \frac{-2}{x+1}$