

$$(x+2)^4 \text{ expand } \rightarrow x^4 + 8x^3 + 24x^2 + 32x + 16$$

$$x^3 + 3x^2 + 3x + 1 \text{ factor } \rightarrow (x+1)^3$$

$$\cos(x) \text{ series, } 8 \rightarrow 1 - \frac{x^2}{2} + \frac{x^4}{24} - \frac{x^6}{720}$$

$$\frac{1}{x^3 - x} \text{ parfrac } \rightarrow \frac{1}{2 \cdot (x-1)} - \frac{1}{x} + \frac{1}{2 \cdot (x+1)}$$

$$t^2 - 1 \text{ laplace } \rightarrow -\frac{s^2 - 2}{s^3}$$