$$\frac{x^4 + x^3 + 7x^2 - 6x + 8}{x^2 + 2x + 8}$$

① 

| | $x^2$ | | | |
|---|---|---|---|---|
| $x^2$ | | | | |
| $2x$ | | | | |
| $8$ | | | | |

②

| | | $x^2$ | $-x$ | $1$ |
|---|---|---|---|---|
| $x^2$ | | $x^4$ | $-x^3$ | $x^2$ |
| $2x$ | | $2x^3$ | $-2x^2$ | $2x$ |
| $8$ | | $8x^2$ | $-8x$ | $8$ |

③ $\dfrac{x^4 + x^3 + 7x^2 - 6x + 8}{x^2 + 2x + 8} = x^2 - x + 1$