

$$(x+2)(x^2+3x-1)$$

①

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

②

|     |        |        |      |
|-----|--------|--------|------|
|     | $x^2$  | $3x$   | $-1$ |
| $x$ | $x^3$  | $3x^2$ | $-x$ |
| $2$ | $2x^2$ | $6x$   | $-2$ |

③  $(x+2)(x^2+3x-1) = x^3 + 5x^2 + 5x - 2$