

(32)
$$x^2 + 0x + 2 \mid x^4 + 0x^3 + x^2 - 3x + 5$$

(-)
$$\begin{array}{r} x^4 + 0x^3 + 2x^2 \\ \hline -x^2 - 3x + 5 \end{array}$$

(-)
$$\begin{array}{r} -x^2 + 0x - 2 \\ \hline -3x + 7 \end{array}$$

$$x^2 - 1 + \frac{-3x+7}{x^2+2}$$

$$\frac{x^4}{x^2} = x^2$$

$$\frac{-x^2}{x^2} = -1$$

(35)
$$\frac{4x + (x+15)}{x+3} = \frac{5x+15}{x+3}$$

$$= \frac{5(x+3)}{x+3}$$

(29)
$$\frac{4x^3 + 5x^2 - 3x + 1}{4x+1} \div 4 = \frac{x^3 + \frac{5}{4}x^2 - \frac{3}{4}x + \frac{1}{4}}{x + \frac{1}{4}}$$

$$\begin{array}{r} -\frac{1}{4} \mid \\ \hline 1 \quad \frac{5}{4} \quad -\frac{3}{4} \quad \frac{1}{4} \\ \downarrow \quad -\frac{1}{4} \quad -\frac{1}{4} \quad \frac{1}{4} \\ \hline 1 \quad 1 \quad -1 \quad \frac{1}{2} \end{array}$$

$$x^2 + x - 1 + \frac{\frac{1}{2}}{x + \frac{1}{4}}$$

$$\frac{\frac{1}{2}}{x + \frac{1}{4}} \times 4 = \frac{2}{x + \frac{1}{4}} \times 4$$

$$x^2 + x - 1 + \frac{2}{4x+1}$$