練13　P16

(1)　$A=(x+2)\times(x+3)-1$

$=x^2+5x+6-1$

$=x^2+5x+5$

(2)　$A=(x^2+2x+3)\times(x-1)+2x+3$

$=x^3-x^2+2x^2-2x+3x-3+2x+3$

$=x^3+x^2+3x$

練14　P16

(1)　$3x^2-4x+5=B\times(x-1)+4$

$B\times(x-1)=3x^2-4x+1$

両辺を$(x-1)$でわる

$$x-1\ \overline{)\ 3x^2-4x+1}\quad \begin{array}{l}3x-1\\ 3x^2-3x\\ \hline -x+1\\ -x+1\\ \hline 0\end{array}$$

$B=3x-1$

(2)　$x^3-2x^2+3x-3=B\times(x-2)-2x+7$

$B\times(x-2)=x^3-2x^2+5x-10$

両辺を$x-2$でわる

$$x-2\ \overline{)\ x^3-2x^2+5x-10}\quad \begin{array}{l}x^2+5\\ x^3-2x^2\\ \hline 5x-10\\ 5x-10\\ \hline 0\end{array}$$

$B=x^2+5$

練15　P17

(1)　$\dfrac{{}^{5}\cancel{15}a\,b^{\cancel{4}^{2}}}{{}_{2}\cancel{8}a^{\cancel{3}}b^{\cancel{3}}_{\cancel{2}}}=\dfrac{5b^2}{2a^2}$

(2)　$\dfrac{x^2-9}{x^2+7x+12}=\dfrac{(x-3)(x+3)}{(x+4)(x+3)}$

$=\dfrac{x-3}{x+4}$

(3)　$\dfrac{x^2-2x-3}{2x^2-7x+3}=\dfrac{(x+1)(x-3)}{(2x-1)(x-3)}$

$1\times(-3)\to -3$

$2\times(-3)\to -6$

$-3-6=-7$

$=\dfrac{x+1}{2x-1}$