

2.) $x-2 + \frac{5}{x+1}$	16.) $2t^2+3$
4.) $-2+6 + \frac{18}{z-3}$	18.) $2x^2-2x+5 + \frac{-4x+7}{x^2+x+3}$
6.) $2u+3 + \frac{8}{3u-1}$	20.) $p^2-pq+q^2 - \frac{3q^3}{2p+q}$
8.) $z^2+5z-3$	22.) $x^2-xy+2y^2$
10.) $3y^2+2y-3 - \frac{9}{5y-3}$	24.) $x^3-1$
12.) $3x-1 + \frac{5x-2}{2x^2-x+3}$	26.) $x^4+ax^3+a^2x^2+a^3x+a^4$
14.) $2u^3-u^2-3u-6 - \frac{7}{2u-1}$	28.) $x^5+ax^4+a^4x+a^5$

4)  $\frac{9z-z^2}{z-3}$

$$z-3 \overline{) \begin{array}{r} -z^2+9z+0 \\ +z^2+3z \\ \hline 6z+0 \\ -6z+18 \\ \hline 18 \end{array}}$$

$-z+6 + \frac{18}{z-3}$

8)  $x-2 \overline{) \begin{array}{r} x^2+5x-3 \\ x^3+3x^2-13x+6 \\ -x^3+2x^2 \\ \hline 5x^2-13x+6 \\ -5x^2+10x \\ \hline -3x+6 \\ +3x+6 \\ \hline 0 \end{array}}$

$x^2+5x-3$

14)  $\frac{4u^4-4u^3-5u^2-9u-1}{2u-1}$

$$2u-1 \overline{) \begin{array}{r} 2u^3-u^2-3u-6 \\ 4u^4-4u^3-5u^2-9u-1 \\ -4u^4+2u^3 \\ \hline -2u^3-5u^2-9u-1 \\ +2u^3+u^2 \\ \hline -6u^2-9u-1 \\ +6u^2+3u \\ \hline -12u-1 \\ +12u+6 \\ \hline -7 \end{array}}$$

$2u^3-u^2-3u-6 - \frac{7}{2u-1}$

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

$$x^2+x-3 \overline{) \begin{array}{r} 2x^4+0x^3-3x^2+7x-8 \\ 2x^4+2x^3+6x^2 \\ \hline -2x^3+3x^2+7x-8 \\ +2x^3+2x^2+6x \\ \hline 5x^2+x-8 \\ -5x^2+5x+15 \\ \hline -4x+7 \end{array}}$$

$2x^2-2x+5 + \frac{-4x+7}{x^2+x-3}$

20)  $\frac{2p^3-pq+pq^2-2q^3}{2p+q}$

$$2p+q \overline{) \begin{array}{r} 2p^3-pq+pq^2-2q^3 \\ -2p^3+p^2q \\ \hline 2p^2q-pq+pq^2-2q^3 \\ -2p^2q+p^2q \\ \hline 2pq^2-2q^3 \\ -2pq^2+q^2q \\ \hline -q^3 \end{array}}$$

$p^2-pq+q^2 - \frac{3q^3}{2p+q}$

22)  $\underline{2x^2} + xy - 2y^2 \quad \overline{x^2 - xy + 2y^2}$

$$\begin{array}{r}
 \underline{2x^4 - x^3y + x^2y^2 + 4xy^3 - 4y^4} \\
 - 2x^4 + x^3y + 2x^2y^2 \\
 \hline
 -2x^3y + 3x^2y^2 + 4xy^3 \\
 + 2x^3y + x^2y^2 + 2xy^3 \\
 \hline
 4x^2y^2 + 2xy^3 - 4y^4 \\
 - 4x^2y^2 + 2xy^3 + 4y^4 \\
 \hline
 0
 \end{array}$$

$x^2 - xy + 2y^2$

26)  $\underline{x-a} \quad \overline{x^4 + ax^3 + a^2x^2 + a^3x + a^4}$

$$\begin{array}{r}
 \underline{x^5 + 0x^4 + 0x^3 + 0x^2 + 0x - a^5} \\
 - x^5 + ax^4 \\
 \hline
 ax^4 + 0x^3 \\
 - ax^4 + a^2x^3 \\
 \hline
 a^2x^3 + 0x^2 \\
 - a^2x^3 + a^3x^2 \\
 \hline
 a^3x^2 + 0x \\
 - a^3x^2 + a^4x \\
 \hline
 a^4x - a^5 \\
 - a^4x + a^5 \\
 \hline
 0
 \end{array}$$

$x^4 + ax^3 + a^2x^2 + a^3x + a^4$