

(21) $9x-6$
 $3(x-2)$

(22) t^2+8t
 $t(t+8)$

(23) $14n^3-35n^2+28$
 $7(2n^3-5n^2+4)$

(24) $5k^3+20k^2-15$
 $5(k^3+4k^2-3)$

(25) $14x^3-2x^2+8x$
 $2x(7x^2-x+4)$

(26) $g^4+24g^3+12g^2+4g$
 $g(g^3+24g^2+12g+4)$

(29) $-2x(5x^2-4x+13)$
 $-10x^3+8x^2-26x$

(30) $-5y^2(-3y^3+8y)$
 $15y^5-40y^3$

(31) $10a(-6a^2+2a-7)$
 $-60a^3+20a^2-70a$

(32) $p(p+2)-3p(p-5)$
 $p^2+2p-3p^2+15p$
 $-2p^2+17p$

(33) $t^2(t+1)-t(2t^2-1)$
 $t^3+t^2-2t^3+t$
 $-t^3+t^2+t$

(34) $3c(4c^2-5)-c(9c)$
 $12c^3-15c-9c^2$
 $12c^3-9c^2-15c$

(37) $17xy^4+51x^2y^3$
 $17xy^3(y+3x)$

(38) $9m^4n^5-27m^2n^3$
 $9m^2n^3(m^2n^2-3)$

(39) $31a^6b^3+63a^5$
 $a^5(31ab^3+63)$

(40) (a) n^2+n
 $n(n+1)$

(b) $(-2)^2+(-2)$
 $4-2$
 2

$(-1)^2+(-1)$
 $1-1$
 0

1^2+1
 $1+1$
 2

2^2+2
 $4+2$
 6

always

$$\begin{array}{r} \textcircled{49} \quad 5x^2 + 4x - 2 \\ \quad 3x^2 \quad \quad + 7 \\ \hline \underline{\underline{8x^2 + 4x + 5}} \end{array}$$

$$\begin{array}{r} \textcircled{50} \quad 4x^4 - 3x^2 - 1 \\ \quad 3x^4 + 6x^2 \\ \hline \underline{\underline{7x^4 + 3x^2 - 1}} \end{array}$$

$$\begin{array}{r} \textcircled{51} \quad 3x^3 - 2x \\ - 8x^3 - 4x \\ \hline \underline{\underline{-5x^3 - 6x}} \end{array}$$

$$\begin{array}{r} \textcircled{52} \quad 7x^4 + 3x^3 + 0x^2 - 5x + 1 \\ - x^3 - 8x^2 + 5x + 3 \\ \hline \underline{\underline{7x^4 + 2x^3 - 8x^2 + 4}} \end{array}$$