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$$\begin{aligned}
 (1) & (a+b)^2(a-b)^2 \\
 & = \{(a+b)(a-b)\}^2 \\
 & = (a^2-b^2)^2 \\
 & = \underline{a^4 - 2a^2b^2 + b^4}
 \end{aligned}$$

←  $(xy)^2 = x^2y^2$

$$\begin{aligned}
 (2) & (x^2+1)(x+1)(x-1) \\
 & = (x^2+1)(x^2-1) \\
 & = \underline{x^4 - 1}
 \end{aligned}$$

$$\begin{aligned}
 (3) & (x^2+2x+3)(x^2-2x+3) \\
 & = (x^2+3+2x)(x^2+3-2x) \\
 & = \{(x^2+3)+2x\}\{(x^2+3)-2x\} \\
 & = (x^2+3)^2 - 4x^2 \\
 & = x^4 + 6x^2 + 9 - 4x^2 \\
 & = \underline{x^4 + 2x^2 + 9}
 \end{aligned}$$

$$\begin{aligned}
 (4) & (x-y+z)(x+y-z) \\
 & = \{x-(y-z)\}\{x+(y-z)\} \\
 & = x^2 - (y-z)^2 \\
 & = x^2 - (y^2 - 2yz + z^2) \\
 & = \underline{x^2 - y^2 - z^2 + 2yz}
 \end{aligned}$$

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$$\begin{aligned}
 (1) & 2x^2y - 6xy^2 + 10xyz \\
 & = xy(2x - 6y + 10z) \\
 & = \underline{2xy(x - 3y + 5z)}
 \end{aligned}$$

$$\begin{aligned}
 (2) & 4x^4z - x^2yz^2 + 2x^3z \\
 & = \underline{xyz(4y - xz + 2z)}
 \end{aligned}$$

$$\begin{aligned}
 (3) & a(x-y) - bx + by \\
 & = a(x-y) - b(x-y) \\
 & = \underline{(a-b)(x-y)}
 \end{aligned}$$

$$\begin{aligned}
 (4) & y(5x-3) + 2(-5x) \\
 & = y(5x-3) - 2(5x-3) \\
 & = \underline{(y-2)(5x-3)}
 \end{aligned}$$