

$$x^2 + 2xy - 15y^2 \quad a=1 \quad b=2 \quad c=-15$$

$$(x^2 + 5xy) \left( \frac{-3xy}{-3y} - \frac{15y^2}{-3y} \right) \quad \textcircled{5} \quad \textcircled{-3}$$

$$x(x+5y) - 3y(x+5y)$$

$$(x-3y)(x+5y)$$

$$2y^2 + 7y + 6$$

$$a=2 \quad b=7 \quad c=6$$

$$\left( \begin{array}{c} 2y^2 \\ \frac{2y^2}{2y} \end{array} + \begin{array}{c} 4y \\ \frac{4y}{2y} \end{array} + \begin{array}{c} 3y \\ \frac{3y}{3} \end{array} + \begin{array}{c} 6 \\ \frac{6}{3} \end{array} \right)$$

$$\begin{array}{r} 12 \\ \textcircled{4} \quad \textcircled{3} \\ \hline 7 \end{array}$$

$$2y(y+2) + 3(y+2)$$

$$(2y+3)(y+2)$$

$$2x^2 + 7x - 4$$

$$a = 2 \quad b = 7 \quad c = -4$$

$$\left( \frac{2x^2 + 8x}{2x} \right) \left( \frac{x - 4}{-1} \right)$$

$$\begin{array}{r} -8 \\ \hline 8 \quad -1 \\ 7 \end{array}$$

$$\cancel{2x(x+4)} - \cancel{1(x+4)}$$

$$(2x-1)(x+4)$$

$$5t^2 + 12t + 4$$

$$a=5 \quad b=12 \quad c=4$$

$$\left( \frac{5t^2}{5t} + \frac{10t}{5t} + \frac{2t}{2} + \frac{4}{2} \right)$$

$$\begin{array}{r} 20 \\ \hline 10 \quad 2 \\ \hline 12 \end{array}$$

$$5t(t+2) + 2(t+2)$$

$$(5t+2)(t+2)$$

$6a^2 - 5a - 6$        $a = 6$     $b = -5$     $c = -6$

$(\frac{6a^2}{2a} + \frac{4a}{2a}) - (9a - 6)$        $\begin{matrix} 36 \\ 4 \\ -5 \\ -9 \end{matrix}$

$2a(3a+2) - 3(3a+2)$

$(2a-3)(3a+2)$