

GCF

1) $3x^2 - 27xy$
 $3x(x - 9y)$

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4) $3x^2 + 15xy + 120y^2$
 $3(x^2 + 5xy + 40y^2)$

2) $-3a^4 - 27a^3b$
 $-3a^3(a + 9b)$

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2 terms 3 terms 4 terms

$a^2 - b^2$ d. ff of sq
 $(a + b)(a - b)$ $ax^2 + bx + c$

$a^3 - b^3$

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7) $p^2 - 10p + 24$ 6, 4
 $(p - 6)(p - 4)$

9) $b^2 + 2b - 35$ -5, 7
 $(b + 7)(b - 5)$

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13) $3n^2 - 26n + 48$ 6, 8
 $(3n - 8)(n - 6)$ $\frac{12, 24}{-24, 2}$

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15) $7n^2 + 54n - 16$ FOIL $\frac{4, 4}{8, 2}$
 $(7n - 2)(n + 8)$

19) $8b^2 + 60b + 112$ $\frac{2, 14}{7, 4}$
 $4(2b^2 + 15b + 28)$ $\frac{7, 4}{28, 1}$
 $4(2b + 7)(b + 4)$

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$$\begin{aligned} 26) & -20x^2 + 52x - 24 \\ & -4(5x^2 - 13x + 6) \quad \begin{matrix} 3,2 \\ 4,1 \end{matrix} \\ & -4(5x + 2)(x - 3) \end{aligned}$$

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$$\begin{aligned} 14) & (3n-2)(n-3) \\ 15) & (7k+1)(k-9) \\ 18) & (5p-9)(2p+1) \end{aligned}$$

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