

Factoring Quadratics

$$\begin{aligned} \text{Ex) } & 6x^2 - 15x \\ & 3x(2x - 5) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & 4x^3 + 24x \\ & 4x(x^2 + 6) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & x^2 - 3x - 10 \\ & (x - 5)(x + 2) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & x^2 - 6x - 16 \\ & (x - 8)(x + 2) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & x^2 - 16 \\ & (x + 4)(x - 4) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & x^2 - 25 \\ & (x + 5)(x - 5) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & 2x^2 + 10x - 28 \\ & 2(x^2 + 5x - 14) \\ & 2(x + 7)(x - 2) \end{aligned}$$

$$\begin{aligned} \text{Ex) } & 3x^2 + 13x + 4 \\ & 3x^2 + 1x + 12x + 4 \\ x(3x + 1) & \quad | \quad 4(3x + 1) \\ & (x + 4)(3x + 1) \end{aligned}$$

$$\begin{array}{c} 12 \\ a \cdot c \\ \hline 1x \quad + \quad 12x = b^{13} \end{array}$$

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