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$$\begin{aligned} (x+y)^2 &= x^2 + 2xy + y^2 \\ (x+2b)^2 &= x^2 + 4bx + 4b^2 \\ (x+b)^2 &= x^2 + 2bx + b^2 \end{aligned}$$

$$x^2 + 2bx + b^2 = (x+b)^2$$

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$$\begin{aligned} 0 &= -2a \sqrt{2b^2} + 2 \sqrt{2b^2} + 2 \sqrt{2b^2} + 2 \sqrt{2b^2} \\ &= -a \sqrt{2} + 2 \sqrt{2} = a \sqrt{2} \end{aligned}$$

Partial Fraction

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$$-\int (2x + \frac{2}{x}) - \ln|x-c| = 0$$

$$e^{\frac{2x}{2} + \frac{2}{2} - \ln|x-c|} = 0$$

$$\int \frac{p(x)}{q(x)} dx = \int \frac{p(x)}{q(x)} dx$$

$$\frac{2y - 2b^2}{2x^2} = y$$

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$$\begin{aligned} x^2 + 2bx + b^2 &= (x+b)^2 \\ x^2 + 2bx + b^2 &= (x+b)^2 \end{aligned}$$