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so many fake sites. this is the first one which worked! Many thanks

$$y = ax^2 + bx + c$$
$$y = x^2 - 4x + 4$$

1) Create factor chart →

factors of C (as pairs)	Sum of factors (must equal b)
1 • 4	1+4 = 5
2 • 2	2 + 2 = 4
-1 • -4	-1 + -4 = -5
-2 • -2	-2 + -2 = -4

2) Determine which factor pair of 'c' has a sum of 'b' → -2 • -2

3) Insert that pair into binomial factors → $y = (x-2)(x-2)$

4) Solve each binomial for zero

$$0 = x - 2$$
$$\begin{array}{r} +2 \quad +2 \\ \hline 2 = x \end{array}$$

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