Starter:

1. $(3x^2 + 4x - 2) + (2x^2 - 3x^3 + 7)$

$-3x^3 + 5x^2 + 4x + 5$

2. $(x^2 + 2)(x^2 - 3x + 5)$

$x^4 - 3x^3 + 5x^2 + 2x^2 - 6x + 10$

~~3. $(x - 6)(x - 7)$~~

$x^4 - 3x^3 + 7x^2 - 6x + 10$

Square Root: $f(x) = \sqrt{x}$

Cube Root: $f(x) = \sqrt[3]{x}$

Piece-wise: $f(x) = \begin{cases} x + 2 & \text{if } x < -2 \\ 1 & \text{if } -2 \leq x \leq 0 \\ -2x + 5 & \text{if } x > 0 \end{cases}$

Step: $f(x) = \text{int } x$

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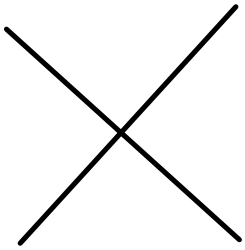
Remember: $(x - 2)(x + 5)$

Undo it.....

$x^2 + 5x - 2x - 10$

$x^2 + 3x - 10$



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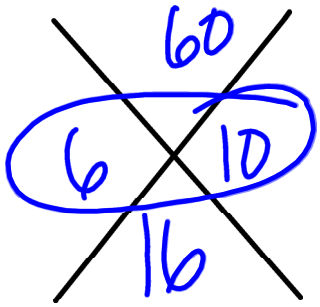
1. $x^2 + 16x + 60$

$(x+6)(x+10)$



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3. $n^2 - n - 42$

$(n+6)(n-7)$

-42

$6 \quad -7$

-1

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7. $5b^2 - 42b - 27$

$(5b - 45)(5b + 3)$

$(b - 9)(5b + 3)$

-135

-45 3

-42

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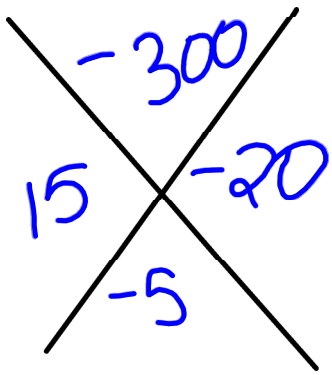
12. $18x^2 - 15x - 150$

$3(6x^2 - 5x - 50)$

$3(6x + 15)(6x - 20)$

$3(2x + 5)(3x - 10)$



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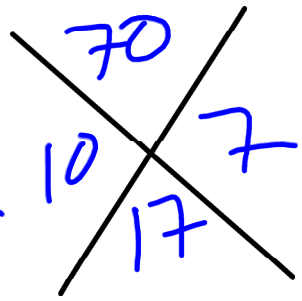
13. $20x^3 + 34x^2 + 14x$

$2x(10x^2 + 17x + 7)$

$2x(10x + 10)(10x + 7)$

$2x(x + 1)(10x + 7)$



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