## SYNTHETIC DIVISION



MULTIPLY ADD REPEAT MULTIPLY ADD REPEAT MULTIPLY ADD REPEAT... ANSWER $\rightarrow x^{2}+3 x+7$

1: write the known zero in the house
2: list out the coefficients
3: bring down the $1^{\text {st }}$ coefficient
4: multiply the $1^{\text {st }}$ coefficient by house number
5: write the product under the $2^{\text {nd }}$ coefficient
6: add down
7: repeat
8: use final numbers to write polynomial
9: use the Quadratic Formula to find the other zeros

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