

The Weekly Rigor

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“A mathematician is a machine for turning coffee into theorems.”

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20 Problems in Dividing a Polynomial by a Polynomial (Part 1)

PROBLEMS

Perform the indicated division, using long division.

1. $\frac{a^2+2ab+b^2}{a+b}.$

2. $\frac{a^3+2a^2b+2ab^2+b^3}{a+b}.$

3. $\frac{a^3+x^3}{a+x}$.

4. $\frac{x^3-y^3}{x-y}$.

“Only he who never plays, never loses.”

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