

The Weekly Rigor

No. 342

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

January 9, 2021

40 Problems in Dividing a Polynomial by a Polynomial Using Synthetic Division (Part 1)

PROBLEMS

Use synthetic division to determine the quotient and remainder. (Include the quotient written out as a polynomial.)

1. $\frac{x^2+x-6}{x-2}.$

2. $\frac{3x^2-2x-8}{x-2}.$

3. $\frac{3x^2-10x+8}{x-2}.$

4. $\frac{3x^2+2x-8}{x+2}.$

5. $\frac{3x^2-2x-7}{x-2}$.

6. $\frac{3x^2-12}{x-2}$.

7. $\frac{3x^2-10}{x-2}$.

8. $\frac{x^2+9x+18}{x+3}$.

“Only he who never plays, never loses.”

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