

The Weekly Rigor

No. 344

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

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40 Problems in Dividing a Polynomial by a Polynomial Using Synthetic Division (Part 3)

17. $\frac{3x^2+11x-4}{x+4}.$

18. $\frac{4x^2-17x-15}{x-5}.$

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

20. $\frac{2x^2-x-4}{x-1}.$

$$21. \frac{2x^3 - x - 6}{x + 2}.$$

$$22. \frac{x^4 - x^3 - 8x - 8}{x - 2}.$$

$$23. \frac{x^5 - 3^5}{x - 3}.$$

$$24. \frac{x^5 + 3^5}{x + 3}.$$

“Only he who never plays, never loses.”

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