

# The Weekly Rigor

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No. 346

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

February 6, 2021

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## 40 Problems in Dividing a Polynomial by a Polynomial Using Synthetic Division (Part 5)

33.  $\frac{x^4 - c^4}{x - c}.$

34.  $\frac{x^4 - c^4}{x + c}.$

35.  $\frac{x^5 - c^5}{x - c}.$

36.  $\frac{x^5 + c^5}{x + c}.$

$$37. \frac{x^6 - c^6}{x - c}.$$

$$38. \frac{x^6 - c^6}{x + c}.$$

$$39. \frac{x^7 - c^7}{x - c}.$$

$$40. \frac{x^7 + c^7}{x + c}.$$

“Only he who never plays, never loses.”

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