

The Weekly Rigor

No. 334

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

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10 Problems in Dividing a Polynomial by a Monomial (Part 1)

PROBLEMS

Perform the indicated division, using long division.

1. $\frac{6a^3b - 9ab^4}{3ab}$.

2. $\frac{8a^4c - 12a^2c^5}{4ac}$.

3. $\frac{9ab^5 - 15ab^3c^2}{3ab^3}$.

$$4. \frac{6a^5c^2 - 12a^8c}{3a^4c}.$$

$$5. \frac{abc - 5a^2b^3c^4}{abc}.$$

$$6. \frac{4a^{2n} - 8a^{3n}}{2a^n}.$$

“Only he who never plays, never loses.”

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