

The Weekly Rigor

No. 349

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

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20 Problems in Solving Fractional Equations (Part 2)

9. $x + \frac{1}{x-3} = 5.$

10. $\frac{2x}{x+2} + \frac{x+2}{2x} = 2.$

11. $\frac{x}{x+1} + \frac{x+1}{x} = \frac{13}{6}.$

12. $\frac{x+2}{x+1} + \frac{x+1}{x+2} = \frac{13}{6}.$

$$13. \frac{3}{x-5} + \frac{2x}{x-3} = 5.$$

$$14. \frac{x^2-3x}{x^2-1} + 2 + \frac{1}{x-1} = 0.$$

$$15. \frac{x}{4x-4} + \frac{5}{x^2-1} = \frac{1}{4}.$$

$$16. \frac{x}{3x-6} + \frac{4}{x^2-4} = \frac{1}{3}.$$

“Only he who never plays, never loses.”

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