

# The Weekly Rigor

No. 331

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

October 24, 2020

## 30 Problems in Reducing Complex Fractions to Simple Fractions (Part 2)

$$9. \frac{\frac{\frac{1}{2} + \frac{3}{4}}{5} - \frac{4}{3}}{6 - \frac{8}{8}}$$

$$10. \frac{\frac{\frac{3}{8} + \frac{3}{4}}{5} - \frac{4}{7}}{8 - \frac{12}{12}}$$

$$11. \frac{\frac{\frac{3}{x} + \frac{2}{y}}{5} - \frac{6}{6}}{x - \frac{y^2}{y^2}}$$

$$12. \frac{\frac{\frac{1}{x} + \frac{3}{y}}{4} - \frac{2}{2}}{x - \frac{y^2}{y^2}}$$

$$13. \frac{\frac{9}{x} + \frac{7}{x^2}}{\frac{5}{y} + \frac{3}{y^2}} .$$

$$14. \frac{\frac{4}{ab} - \frac{3}{b^2}}{\frac{1}{a} + \frac{3}{b}} .$$

$$15. \frac{\frac{1}{x} + \frac{1}{y}}{2} .$$

$$16. \frac{\frac{1}{m} - \frac{1}{n}}{3} .$$

“Only he who never plays, never loses.”