## The Weekly Rigor

No. 330

"A mathematician is a machine for turning coffee into theorems."

October 17, 2020

## **30 Problems in Reducing Complex Fractions to Simple Fractions** (Part 1)

## PROBLEMS

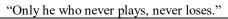
Reduce the following complex fractions to simple fractions.

1. 
$$\frac{\frac{a}{2} - \frac{b}{a}}{1 + \frac{1}{a}}$$
. 2.  $\frac{1 + \frac{1}{c}}{a + \frac{1}{a}}$ .



5. 
$$1 - \frac{1}{1 + \frac{1}{a}}$$
. 6.  $\frac{1}{1 - \frac{1}{1 + \frac{1}{n}}}$ .





Written and published every Saturday by Richard Shedenhelm

 $8. \ \frac{\frac{9}{8xy^2}}{\frac{5}{4x^2}}.$