

New Concepts

Problem Set #2

*“There is a distinction between what may be called a **problem** and what may be considered an **exercise**. The latter serves to drill a student in some technique or procedure, and requires little if any, original thought... No exercise, then can always be done with reasonable dispatch and with a minimum of creative thinking. In contrast to an exercise, a problem if it is a good one for its level, should require thought on the part of the student.”*

- Howard Eves

Exercises:

Written Exercises p.9 #27-36

Problems:

2-1 The Challenge Problem on p.9

2-2 Four 4's to get a 5

Use four 4's to create an expression equal to 5 as many different ways as possible. You will submit your most original attempt.

2-3 The 4x3x20 Problem

Repeat the “Four 4's” Problem, except this time, solve for the first 20 positive integers using exactly “Four 3's”. Don't forget decimals and vinculum ($.3$ and $\bar{3}$ can be very helpful)

1 = _____	11 = _____
2 = _____	12 = _____
3 = _____	13 = _____
4 = _____	14 = _____
5 = _____	15 = _____
6 = _____	16 = _____
7 = _____	17 = _____
8 = _____	18 = _____
9 = _____	19 = _____
10 = _____	20 = _____