Tuesday, Oct 20th

p54

#6

$$\begin{array}{r} {}^{1}25 \\ +\ 37 \\ \hline 62 \end{array}$$

$(+25)+(+37)+(-8)+(-9)+(-6)$

$25 + 37 + -8 + -9 + -6$

$62 + -8 + -9 + -6$

$54 + -9 + -6$

$45 + -6$

39

Review: Natural Number Sequences

ex #1 What are the first 3 terms of the sequence with the rule $t = 2n + 4$, starting with $n = 1$

$n = 1$

$t = 2(1) + 4$

$t = 2 + 4$

$t = 6$

$n = 2$

$t = 2(2) + 4$

$t = 4 + 4$

$t = 8$

$n = 3$

$t = 2(3) + 4$

$t = 6 + 4$

$t = 10$

$S = \{6, 8, 10, \ldots\}$

the seq. continues

ex#2

What is the term with r=4 of the rule

$t = 2r + 4$

$t = 2(4) + 4$

$t = 8 + 4$

$t = 12$

ex

Miss Grewal has a debt of \$5,

and Anthony has a debt of \$500.

Who owes the bank more money?

Anthony

What does $\mathbb{Z}$ → all integers
- neg #'s
- pos #'s
- 0
- only whole #'s

$\mathbb{Z}^*$: no 0

$\mathbb{Z}^+$: no neg
only pos.

$\mathbb{Z}^-$: - neg
- 0
- no pos.

find $(-2)^3 = -2 \cdot -2 \cdot -2$
$= -8$

$(-2)^2 = 4$

$(-2)^4 = (-2 \cdot -2 \cdot -2 \cdot -2)$
$= 16$

$(-2)^3 = (-2 \cdot -2 \cdot -2)$
$= -8$

$-2^2 = -4 \rightarrow -(2)^2$

$-2^4 = -16$