

## MATH 6: HOMEWORK 1 REVIEW OF MATH 5-1

To successfully cover new topics, we need to review some important concepts that you learned before in Math 5. Topics we reviewed today:

- Fractions and algebraic equations
- Equations and word problems
- Absolute value
- Powers

Write it neatly on quadrille paper with enough detail to understand your process.

Homework will be collected during the class.

The problems are similar to those we discussed today in class.

1. Rewrite each of the expressions below in the simplest possible form, by collecting the like terms if possible:

(a)  $a(3 - a) - 2a(a + 2)$                       (b)  $(6x - 2)(x + 2)$                       (c)  $\frac{(x^3y^2)^2x^{-2}}{y^2x}$

2. Solve this word problems by constructing the equation and finding the answer:

(a) If you take half Peter's age and add 7, you get his age 13 years ago. How old is Peter?

(b) An apple cost 9 cents, and an orange 15 cents. Elena bought some apples and oranges, 20 fruit in all, and paid \$2.64. How many apples and how many oranges did she buy?

3. Solve equations:

(a)  $\frac{3}{8}x = \frac{1}{3}$                       (b)  $|2x - 5| = 1$                       (c)  $4(a - 2) = 2a + 18$