

5.4

NOTES

“WRITE LINEAR
EQUATIONS IN
STANDARD FORM”

Get Ready.....

Identify the FORM of the equation:

a) $Y = -4x + 5$

b) $Y - 3 = 5(x + 4)$

c) $7x + 2y = 6$

STANDARD FORM:

$$AX + BY = C$$

- Where A, B and C are REAL #'s
- A and B NOT 0
- Make A positive
- Make so no fractions/decimals

Ex. # 1 - Practice writing these equations in
STANDARD FORM:

a) $y = 2x + 5$ b) $y = -\frac{2}{3}x + 4$

EX. # 2 – Write an equation in standard form that has the given information:

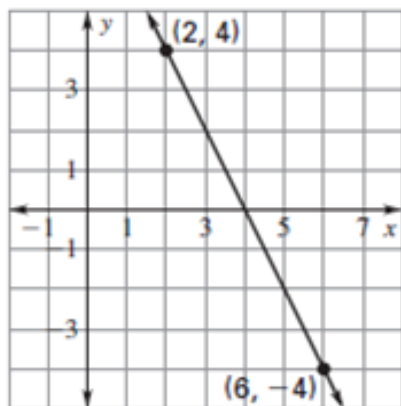
a) $(0, 5)$, $m = -2$ b) $(-8, 4)$, $(4, -4)$

Ex. # 3 – Write equations of the horizontal and vertical lines that pass through the given points:


$(-4, 3)$

Ex. # 4

Write an equation in standard form of the line shown.



EX. # 5 – Word Problem Practice

 **MULTIPLE REPRESENTATIONS** As the student council treasurer, you prepare the budget for your class rafting trip. Each large raft costs \$100 to rent, and each small raft costs \$40 to rent. You have \$1600 to spend.

a. **Writing an Equation** Write an equation in standard form that models the possible combinations of small rafts and large rafts that you can rent.

b. If you plan on renting 12 large rafts how many small rafts will you be able to rent?

HOMework:

Pages 314 – 316

#'s 1-4 ALL

12 – 28 even,

30 is E.C., 38, 40, 46, 48