Chapter 3 section 5
Solving equations
Combine like terms:
Example 1: page 208

$$
7 x-11 x=12 \quad-6 x-5 x=22
$$

Example 2

$$
12=5 x-(4+x) \quad 11=3 x-(1-x)
$$

Variable on both sides
Goal: Get the variables on one side of the equal sign.
Example 3: Page 209

$$
5 x=3 x-18 \quad 4 x-3=x
$$

Example 4: page 21

$$
5 x=3+6 x
$$

$-\mathrm{x}=\mathrm{c} \quad$ another way to write?
a) multiply both sides by -1
b) negate each side

$$
-(-\mathrm{x})=-\mathrm{c}
$$

Other problems
Page 211
page 212
$6 \mathrm{x}-5=12 \mathrm{x}+19$ $2(3 x+2)-3(4-x)=x+8$

Problems:

1) $5 x-3 x=-18$
2) $4 x=3+x$
3) $5 x-3=6 x$
4) $2 x+3=18-3 x$
5) $7 x-5 x=-6$
6) $-9 x+x=-8$
7) $-6=x+3-4 x$
8) $1-8(x-8)=17$
9) $-7 x+6(x+8)=-2$
10) $7-2(x+4)=-1$
11) $4(-7 x+5)+8=3(-9-1)-2$
12) $5(5 x-2)=4(8 x+1)$
13) $6 x-5=19$
14) $4 x=-12$
15) $4 x-4=12$
16) $2 x=-18$
