5-2 Solving Equations with Variables on Each Side

Examples:

a) 3x – 2 = x + 4 write the equation

+2 +2 add 2 to each side

3x = x + 6 Simplify

-1x -1x Subtract 1x from each side

2x = 6 Simplify

÷2 ÷2 Divide both sides by 2

x = 3

b) 5p + 15 = p – 49

- 15 - 15

5p = p – 64

-1p -1p

4p = -64

÷4 ÷4

p = -16

In class examples Textbook page 231 #1-7

1) x + 6 = 3x 2) 4y = 2y – 10

3) 7z – 4 = 12 + 3z 4) 10t – 3 = t + 15

5) 28 – x = 3x – 84 6) 2p – 7 = 13 – 8p