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

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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