# Homework 5 : Due July 9, 2014

In exercises 1 – 18 solve the following equations for $\boldsymbol{x}$:

1) $x - 2 = 9$
2) $4x = 24$
3) $3x - 6 = 10$
4) $-x + 3 = -10$
5) $5x + 1 = 3x - 8$
6) $-2x + 4 = -4x + 2$
7) $3(7x - 2) = -(x + 4)$
8) $-2(-3x - 2) - x = 4x + 3(2x - 9)$
9) $0.5(x - 0.3) = 2x - 0.7$
10) $x + 1.1(2x + 2.4) = 1.02 - 3x$
11) $34x-53=32x+12$
12) $-2x+35=4x+14$
13) $x + y = z$
14) $4x - 5y = 1$
15) $y(3x - y) = -6(x - 7)$
16) $axb=4$
17) $ax + b = cx + d$
18) $2bx=-34x+2$

19) What is the price of one chair if the price of three chairs is 20 dollars less than the price of two chairs and a fifty dollar table?

20) Chase started his job on January 1, 2013 and he is earning $2,700 every month. Emily started working 5 month later and she is earning $3,000 every month. How long after Emily started her job will Chase and Emily have earned the same amount of money from their jobs?