1.) (5 pts each) Solving One Step Equations (2-1) Solve each equation.

a)
$$b + 8 = 21$$

d)
$$\frac{y}{8} = 5$$

e)
$$-15t = 45$$

2.) (5 pts each) Solving Two-Step Equations (2-2) Solve each equation.

a)
$$3x + 8 = 44$$

b)
$$\frac{b}{5}$$
 - 4 = -2

c)
$$15 = 6x - 9$$

d) 8 =
$$\frac{a}{-7}$$
 + 12

3.) (5 pts each) Solving Multi-Step Equations (2-3) Solve each equation.

a)
$$8c + 7(2c - 3) = 23$$

b)
$$3(4 + x) - (2x + 3) = 14$$

c)
$$9y - 2(3y - 5) = 8$$

d)
$$\frac{c+5}{2} = 11$$

4.) (5 pts each) Equations with Variables on Both Sides (2-4) Solve each equation.

a)
$$6x - 25 = 7 - 2x$$

b)
$$4(a - 2) = 7a - 35$$

c)
$$9b + 15 = 11b + 27$$

d)
$$8(3y - 2) = 4(5y + 4)$$

- 5.) (5 pts each) Equations and Problem Solving (2-5) Write and solve an equation for each situation.
 - a) A man stole Nate's burrito and drove away at 50 mi/hr. Hangry, Nate took off on foot in the same direction a half an hour later. If Nate ran at 60 mi/hr, how long will it take for him to catch the nefarious burrito burglar?

b) A train leaves the station at 12pm traveling at 120 mi/hr. A second train left from the same station at 2pm traveling 80 mi/hr in the opposite direction. How long until the trains are 840 miles apart?

c) Usain Bolt ran an iron man event at a respectable 12 mi/hr. Nate, feeling generous, gave him an hour head start. If Nate ran 18 mi/hr, how long until he caught up with Usain Bolt?