# Quiz #2 - Algebraic Linear Equations

Name: _____ Class: _____

**This must be handed in on time to receive any credit.**

Solve each of the following equations.  Each question is worth 5 points.

1.)  $5x - 8 = 3x + 12$

2.)  $3(4b - 7) = 2(3b + 11) + 5$

3.)  $-9x + 1 = -3(5x - 7) + 4x$

4.)  $\dfrac{3x}{4} + \dfrac{x}{3} = \dfrac{13}{6}$

5.) Find three consecutive odd integers such that the difference of the third squared and the second squared is 43 more than three times the first. **(5 points)**

6.) On Saturday, Jensen's Sports Supplies sold four times as many basketballs as baseballs. The price of baseballs is $7 and the price of basketballs is $14.25. If the total amount of sales for these sporting goods was $576, what was the total number of each ball that was sold?
**(5 points)**