Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Practice Test Pre-Algebra

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk: 1 2 3 Complex Equations Mrs. Theriot

I. Definition- Define the following. ( 1 pt each)

1. Identity - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. Solve the equation completely. Tell whether it has **“*one solution”,” no solution”****,* or is an “***identity”.*** Show all work. ( 4 pts each)

2) 15 + a = a – 3 3) - 6 ( x + 4 ) = -2 ( 3x + 12) 4) 14 + 4n = 11n

III. Solve, justify steps, and check. (6 pts each)

5) -2 ( 4 – x ) – 7 = 5 Justification Check 6) 9t – 15t = - 18 Justification Check

IV. Solve the equation. Show all work. ( 4 pts each)

7) 7 ( 8 + b) = 28 8) 9a – 5a – 6 = 38 9) 

10) x – 2 ( 3x – 2 ) = -6 11) 2y + 5 = - y – 4 12) 13m = 15m + 14

13) 9 – 4x = 6x + 2 – 3x 14) -2 ( 5 – r ) - 2 r = 2 ( 6 + r )

15) 7 + 3 ( x –2) = 4 ( 2 + x ) 16) 8n + 4 (-5 – 7n ) = -2 ( n + 1 )

17)  ( 6x – 3 ) = 6 ( 2 + x) – 5x