First name: _____ Last name: _____   Student ID: _____

Equations (1) Homework

1. Solve.

a) $6x + 3 + 2x = 19$

b) $10m - 3m + 8 = 43$

c) $4a + a + 9 = 44$

d) $15 - 3b + b = 3$

e) $2y + 4 + 3y = 9$

f) $7f - 12 + f = 20$

g) $9q + 2 - 8q - 13 = 0$

h) $8 - 3k + 5k = 0$

i) $3b + 4 = 2b + 6$

j) $7p - 18 = 3p - 2$

k) $2x + 4 = 5x - 5$

l) $8g + 3 = g + 10$

m) $6h - 5 = 2h + 3$

n) $4m - 9 = m + 7$

o) $5r - 6 = 2r + 3$

p) $-3y + 15 = y - 13$

q) $4(x - 3) = 3x - 7$

r) $2(a - 8) + 3(a + 6) = 17$

s) $3(2p + 1) = 5(p + 1)$

t) $5d = 4(d + 2)$

u) $2(3t + 5) - 4(2t - 1) = 6$

v) $5(k + 3) = 2(4k + 7) - 5$ w) $2(2b + 7) = 3(b + 3) + 3$

2. Find the roots.

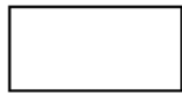|	
1. $6 = 2x + 3$	2. $(7x + 5) = - (14x + 5)$
3. $7x = 9x + 3$	4. $x + \dfrac{3}{5} = \dfrac{1}{10}$
5. $\dfrac{x}{9} = 45$	6. $6x + 91x - 9 = 45$
7. $5x + 6x - 2x = 3x - 18 + 12 - 6$	8. $\dfrac{5}{6}x + \dfrac{1}{3} = 4x + \dfrac{4}{8}$

9. $0.76x + 0.5 = 0.23x + 0.45$	10. $3(0.9x - 0.34) = 6(0.3x - 0.4)$

3. Perform a check to the previous question #10. Remember to use proper format.

4. A square and a rectangle have the same perimeter. Find the side lengths of each figure.

$x + 1$

$2x - 3$

$x - 1$