

## Algebra Worksheet 2

- Solving Linear Equations with unknown on both sides
- Simplifying Fractional Expressions

## 1. Solve for each unknown value:

a.  $4x + 1 = 2x + 7$

b.  $6y - 3 = 2y + 13$

c.  $15 - x = 27 - 3x$

d.  $8(x - 1) = 4(x + 3)$

e.  $9(2x - 5) = 3(4x + 7)$

## 2. Simplify the following:

a.  $\frac{x}{2} + \frac{3x}{5}$

b.  $\frac{7x}{4} - \frac{5x}{6}$

c.  $\frac{2}{3x} - \frac{5}{4x}$

d.  $\frac{3x-4}{5} + \frac{5x+1}{4}$

e.  $\frac{7m-2}{3} - \frac{2m+3}{2}$