# 3.6: Solving Polynomial Equations with Fractional Coefficients (Day 1)

### Warm Up

$$-2(n+11)+4=12$$

$$3(2h-5)+4(3h+2)=11$$

#### **Example**

$$\frac{x}{2} - 2 = -\frac{x}{3}$$

#### **Steps**

1) Multiply EACH term by the LOWEST COMMON DENOMINATOR.

- 2) Expand each term (watch out for negative signs treat each term as though in brackets).
- 3) Simplify each side, then isolate the variable.

## **Examples**

1. Find the value of the variable:

a) 
$$3y = \frac{12}{4} + \frac{2y}{5}$$

$$b) \frac{3(2y-1)}{5} = \frac{y}{10}$$

c) 
$$\frac{-2(n+11)}{4} + \frac{4}{5} = \frac{12}{5}$$

**Homework:** Equations Worksheet #1-15