## Section 2.1: cordd

Wednesday, October 02, 2013

types of equations (in one variable):

- identity: an equation that is satisfied by
every number
(for which both sides of the
equation are defined)

-> solution set is R

- conditional: an equation that is satisfied by at least one number but is not an identity

-> solution set looks 1. ke {83} or {-1,3}

- inconsistent: an equation that cannot be satisfied by any number

-> solution set is \$

solve the following equations and stake what type of equation (inconsistent, conditional, or identity) it is

$$\left(\frac{x}{2}\right) - \frac{3x-4}{6} = \begin{bmatrix} 1\\ 3 \end{bmatrix}$$

$$3(x-1) - \frac{3x-4}{6} = \begin{bmatrix} 1 \\ 3 \end{bmatrix}^{2}$$

$$3(x-1) - (3x-4) = 2$$

$$3x-3 - 3x + 4 = 2$$

$$1 = 2$$

inconsistent

$$a(0.25 \times +1) - a = 0.75 \times -1.75$$
  
 $0.5 \times + a - a = 0.75 \times -1.75$   
 $4(1.75) = (0.25 \times)^4$   
 $7 = \times$ 

or x=7

conditional

£73