



$$7) \quad 6x + 4 = 4 \left( \frac{3}{2}x + 1 \right)$$

$$6x + 4 = 6x + 4$$

↳ these are exactly  
the same expressions  
on both sides so  
it is ALWAYS TRUE

We say  
infinitely many  
solutions

When solving equations, there will be  
3 possibilities:

1.) one solution  $x + 2 = 5 \quad x = 3$

2.) no solution  $x - 5 = x + 3$  (false)

3.) infinitely many solutions  $x + 7 = x + 7$  (true)

8)  $2x + 1 = 2x - 1$       9)  $\frac{1}{2}(6x - 4) = 3x - 2$

NO SOLUTION

$$3x - 2 = 3x - 2$$

infinitely many solutions

10)  $\frac{1}{3}(2b + 9) = \frac{2}{3}(b + \frac{9}{2})$       11)  $6(5 - 2v) = -4(3v + 1)$

$$\frac{2}{3}b + 3 = \frac{2}{3}b + 3$$

infinitely many solutions

$$\begin{array}{r} 30 - 12v = 12v - 4 \\ +12v \quad +12v \\ \hline 30 = -4 \end{array}$$

$$30 = -4$$

no solution