## Review: Equation Solving

To solve an equation we must isolate the unknown variable by using <u>inverse</u> operations. One easy trick is to use the mnemonic <u>BEDMAS</u> backwards.

Solve the following equations

a) 
$$2x - 5 = 7 + 5$$
  

$$Z = \frac{12}{2}$$

$$Z = \frac{12}{2}$$
b)  $3(x - 4) = 5x + 2$ 

$$3x - \frac{12}{2} = 5x + 2$$

$$-\frac{2x}{-2} = \frac{14}{-2}$$

$$\frac{x = -7}{-2}$$
c)  $4 - 5(x + 3) = 2(x - 6)$ 
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 $(x^2 - x - 12) = 2x$ 
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 $(x^2 - x - 2)$ 

e) 
$$\frac{2}{3}(x-5) = x+4$$
  
f)  $\frac{3}{4}(x-5) = \frac{1}{3}(x+4)$ 

g) 
$$\frac{2x-6}{5} = \frac{3x+5}{4}$$
 h)  $\frac{1}{5}x - \frac{2}{3} = \frac{3}{5}x + \frac{5}{3}$