Literal Equations

* Always consider Order of Operations
* Use inverse operation to isolate the wanted variable on one side of the equation or inequality.
* A strategy is to substitute numbers for unwanted variables to recognize the next steps to take.

Solve for q. p(q + r) = 1

 $\frac{p\left(q+r\right) = 1}{p}$

q + r = $\frac{1}{p}$

 -r -r

q = $\frac{1}{p}$ – r

nx = 4j – 5x

+5x + 5x

x(n + 5) = 4j

x = $\frac{4j}{n+5}$

r = $\frac{gs}{g+s}$

r(g + s) = gs

-gs -gs

rg + rs – gs = 0

 -rs -rs

rg – gs = -rs

g(r – s) = -rs

g = $\frac{-rs}{r-s}$