

MORE GURU!

Ex:)

SOLVE FOR P.

DISTRIBUTE

$$30 + 6P = 7(P+6) - 5$$

$$30 + 6P = 7P + 42 - 5$$

$$30 + 6P = 7P + 37$$

$$\begin{array}{r} -6P \quad -6P \\ \hline 30 = 1P + 37 \end{array}$$

$$\begin{array}{r} -37 \quad -37 \\ \hline -7 = P \end{array}$$

$$\frac{-7}{1} = P$$

$$-7 = P$$

$$\boxed{P = -7}$$

DO	UNDO
$\times 1$	$-37 \checkmark$
$+37$	$\div 1$

Ex:)

SOLVE FOR r.

$$154 = -4(8+6r) + 24r$$

$$154 = -32 - 24r + 24r$$

$$154 = -32 \leftarrow \text{FALSE}$$

$\boxed{\text{NO SOLUTION}}$

Ex:)

SOLVE FOR n.

$$5(n+2) - 7 = 6n - (n-3) \quad \text{IF YOU EVER SEE A "-" IN FRONT OF PARENTHESIS, YOU DISTRIBUTE A "-1".}$$

$$5(n+2) - 7 = 6n - 1(n-3)$$

$$5n + 10 - 7 = 6n - 1n + 3$$

$$\begin{array}{r} 5n + 3 = 5n + 3 \\ -5n \quad -5n \\ \hline 3 = 3 \leftarrow \text{TRUE} \end{array}$$

$$3 = 3 \leftarrow \text{TRUE}$$

$\boxed{\text{INFINITE SOLUTIONS}}$