

A Range of Equations

Solve each equation for the unknown
If the answer is not an integer, leave it as a fraction

$2x - 1 = 6$
$4x + 2 = 10$
$1 - 3x = -11$
$2x + 1 = x + 4$
$2(x-1) = 6$
$3x - 1 = 2x - 4$
$1 + 3x = 5x - 3$
$2t + 7 = t - 7$
$12 + p = 2(p-2)$
$16 + x + x = 3x - 9$
$5(x-3) = 10(x+2)$
$\frac{1}{2}x + 3 = 9$
$-x - 4 = 3x - 8$
$3k - k + 4 = 2$
$7x - 24 = 3x + 8$
$x - 1 = -1$
$-5p + 3 = p - 15$
$\frac{1}{4}p - 6 = -3$

Expand and simplify

$2(x-2)$
$x(x+3)$
$3x(5-x)$
$(x-2)(x-5)$
$-x(x-6)$
$(1+p)(p+5)$
$(a+b)(a-b)$
$2p(p+4)$

Basic simultaneous equations.
Solve for x and y

$x + 2y = 8$
$2x + y = 7$
$3x + 2y = 19$
$x + 5y = 15$
$x - 2y = 4$
$4x + 3y = 49$
$5x + y = 2$
$-4x + 3y = 44$
$7x - 2y = 23$
$3x + 4y = 39$
$6x - 5y = -14$
$18x - 4y = 6$

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