WAY COOL ALGEBRA

Quadratics with $\sqrt{Radical}$ Answers

Completing the Square

Solve each Quadratic by Completing the Square (1 - 15).

These problems already have Perfect Square Trinomials.

$a^2 + 2a + 1 = 121$	$ \begin{array}{c} 2) \\ 16y^2 + 24y + 9 = 121 \end{array} $	$36v^2 - 12v + 1 = 49$
$9w^2 + 24w + 16 = 36$	$\begin{vmatrix} 5 \\ 25g^2 - 20g + 4 = 75 \end{vmatrix}$	$4a^2 + 8a + 4 = 60$

Make each problem into a Perfect Square Trinomial, Factor, and then use Square Roots.

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7)	8)	9)	
$m^2 - 14m = -13$	$k^2 - 4k = 45$	$n^2 - 6n = 59$	
10)	11)	12)	
$c^2 + 30c = -50$	$w^2 + 6w + 7 = 14$	$g^2 - 26g + 162 = -6$	
13)	14)	15)	
$x^2 + 5x = -6$	$y^2 - 7y + 23 = 13$	$p^2 - 9p - 18 = -8$	