Special Products - Perfect Square Trinomials

	ctions: Simplify the following polyn $(x-6)(x+6) = \underline{\qquad \qquad }$ $(k-11)(k-11) = \underline{\qquad \qquad }$	omials = ← Difference of Squares
•		= ← Difference of Squares
	$(3d+7)(3d+7) = \underline{\hspace{1cm}}$	
Steps to Factor a Perfect Square 1. Trinomial	Make sure you have a perfect square trinomial! You can take the square 1. root of the first and last terms. The middle term is twice the product of the square root of the first and last terms.	
2.	$a^2 - 2ab + b^2 = \underline{\hspace{1cm}}$	== ==
	3. Check your work by distributing! Directions: Factor each perfect square trinomial. Check your work by distributing. If a polynomial cannot be factored, write "prime".	
	$\frac{1500 \text{ mg. } 21 \text{ a polynomial culture } 50 \text{ mg.}}{x^2 + 10x + 25}$	2. $s^2 - 8s + 16$
3.	$p^2 + 8p + 64$	4. $n^2 - 16n + 64$
5.	$m^2 + 24m + 144$	6. $169 - 26r + r^2$
7.	$9g^2 + 12g + 4$	8. $7x^2 - 9x + 2$
9.	$16t^2 + 48t + 36$	10. $4z^2 - 36z + 81$
11.	$2u^2 + 12u + 18$	12. $16d^2 - 40de + 25e^2$