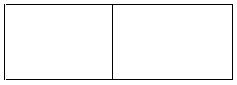
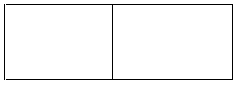
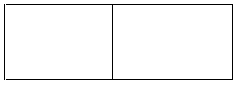
Name_____

Write the following as a product of two polynomials. Check your answer by distributing.

Polynomial	Area Model	Factored Form
Ex) $3x^2 + 6x$	x^2 $+2x$ 3 $3x^2$ $6x$	$3(x^2 + 2x)$
1) $6a + 14a^2$		
2) $2y^4 + 2y^5 + 2y^{10}$		
3) $6z^2 - 15z$		
4) $42w^3 - 14w + 77w^5$		
5) $3y^2 - 6y + 3$		
6) $2 - 8a^2$		
7) $4x^3 - 8x^2 + 4x$ (Draw your own boxes)	$4x$ 	

In questions 8-10, re-write each polynomial by factoring out the GREATEST COMMON FACTOR (GCF). Check your answer by distributing.

Polynomial	Area Model	Factored Form
8) $4b^2 + 2b^4$		
9) $5x^3 - 15x^2 + 25x$		
10) $-16a^5 + 8a^3$		