Remainder and Factor Theorem

1	What	t is the remainder whe	$n \ 2005 x^5$	$-2004x^4$	+2003x - 2002	is d	ivided by $x-3$ ?
	A)	1350	B)	1675		C)	5625
	D)	6275	E)	NOTA			

2 Let  $f(x) = x^5 + 4x^3 - 6x^2 + 9$ . Determine the remainder when f(x) is divided by the factor (x-1). A) -2 D) 9 E) NOTA

3 What is the remainder when  $9x^{16} - 2x^{13} + 4x^9 - 6x^2 + 2x - 1$  is divided by (x+1)? A) 6 B) 3 C) -1 D) -2 E) NOTA

4	Find	all integer roots of $y = 5x^{5}$	$5 + x^4$	$+21x^3+15x^2-98x+56$		
	A)	$1 - 2 - \frac{4}{-}$	B)	$-1.2 - \frac{4}{-1}$	C)	-1,2
		1, 2, 5		<sup>1</sup> , 2, 5		
	D)	1,2	E)	NOTA		

5	Wha	t is the remainder when $3x$	$^{3} + 20$	$0x^2 + 36$ is divided by	(x+7)	
	A)	-13	B)	88	C)	2012
	D)	2045	E)	NOTA		

6 What is the remainder when  $5x^5 + 3x^4 + 4x^2 + x - 7$  is divided by x+1? A) -6 B) -2 C) 2 D) 6 E) NOTA

7	Wha	at is k if the solutions to $0 =$	$3x^2$	+kx - 504 are $-42$ and $4?$		
	A)	38	B)	114	C)	342
	D)	504	E)	NOTA		