

<p align="center">FACTORING POLYNOMIALS</p> <p align="center">INT. ALG. APPEARANCES: fall0706ia, 060804ia multiple choice MATH A APPEARANCES: 080434a, 080533a 2-pointer 010105a, 060109a, 080103a, 010201a, 010414a, 080711a multiple choice</p>		
	REGENTS QUESTIONS	SOLUTIONS
1	<p>080818a</p> <p>The greatest common factor of $4a^2b$ and $6ab^3$ is</p> <p>(1) $2ab$ (3) $12ab$ (2) $2ab^2$ (4) $24a^3b^4$</p>	<p>(1)</p>
2	<p>060421a</p> <p>If $3x$ is one factor of $3x^2 - 9x$, what is the other factor?</p> <p>(1) $3x$ (3) $x - 3$ (2) $x^2 - 6x$ (4) $x + 3$</p>	<p>(3)</p> <p>$3x^2 - 9x$ $3x(x - 3)$</p>
3	<p>060318a</p> <p>If one factor of $56x^4y^3 - 42x^2y^6$ is $14x^2y^3$, what is the other factor?</p> <p>(1) $4x^2 - 3y^3$ (3) $4x^2y - 3xy^3$ (2) $4x^2 - 3y^2$ (4) $4x^2y - 3xy^2$</p>	<p>(1)</p> <p>$56x^4y^3 - 42x^2y^6$ $14x^2y^3(4x^2 - 3y^3)$</p>
4	<p>010004a</p> <p>Which expression is a factor of $x^2 + 2x - 15$</p> <p>(1) $(x - 3)$ (3) $(x + 15)$ (2) $(x + 3)$ (4) $(x - 5)$</p>	<p>(2)</p> <p>$x^2 + 2x - 15$ $(x + 5)(x - 3)$</p>
5	<p>060206a</p> <p>Which expression is a factor of $n^2 + 3n - 54$?</p> <p>(1) $n + 6$ (3) $n - 9$ (2) $n^2 + 9$ (4) $n + 9$</p>	<p>(4)</p> <p>$n^2 + 3n - 54$ $(n + 9)(n - 6)$</p>
6		<p>(2)</p>