

<p style="text-align: center;"><b>FACTORING POLYNOMIALS</b></p> <p>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 style="text-align: center;"><b>080818a</b></p> <p>The greatest common factor of <math>4a^2b</math> and <math>6ab^3</math> is</p> <p>(1) <math>2ab</math> (3) <math>12ab</math> (2) <math>2ab^2</math> (4) <math>24a^3b^4</math></p>	(1)
2	<p style="text-align: center;"><b>060421a</b></p> <p>If <math>3x</math> is one factor of <math>3x^2 - 9x</math>, what is the other factor?</p> <p>(1) <math>3x</math> (3) <math>x - 3</math> (2) <math>x^2 - 6x</math> (4) <math>x + 3</math></p>	<p>(3)</p> $3x^2 - 9x$ $3x(x - 3)$
3	<p style="text-align: center;"><b>060318a</b></p> <p>If one factor of <math>56x^4y^3 - 42x^2y^6</math> is <math>14x^2y^3</math>, what is the other factor?</p> <p>(1) <math>4x^2 - 3y^3</math> (3) <math>4x^2y - 3xy^3</math> (2) <math>4x^2 - 3y^2</math> (4) <math>4x^2y - 3xy^2</math></p>	<p>(1)</p> $56x^4y^3 - 42x^2y^6$ $14x^2y^3(4x^2 - 3y^3)$
4	<p style="text-align: center;"><b>010004a</b></p> <p>Which expression is a factor of <math>x^2 + 2x - 15</math></p> <p>(1) <math>(x - 3)</math> (3) <math>(x + 15)</math> (2) <math>(x + 3)</math> (4) <math>(x - 5)</math></p>	<p>(2)</p> $x^2 + 2x - 15$ $(x + 5)(x - 3)$
5	<p style="text-align: center;"><b>060206a</b></p> <p>Which expression is a factor of <math>n^2 + 3n - 54</math>?</p> <p>(1) <math>n + 6</math> (3) <math>n - 9</math> (2) <math>n^2 + 9</math> (4) <math>n + 9</math></p>	<p>(4)</p> $n^2 + 3n - 54$ $(n + 9)(n - 6)$
6		(2)