

*A.A.13: Add, subtract, and multiply monomials and polynomials.*

1. 010819a, P.I. A.A.13

What is the product of  $2r^2 - 5$  and  $3r$ ?

- [A]  $6r^2 - 15$                       [B]  $6r^3 - 5$   
[C]  $6r^3 - 15r$                       [D]  $6r^2 - 15r$

2. 060807ia, P.I. A.A.13

What is the product of  $-3x^2y$  and  $(5xy^2 + xy)$ ?

- [A]  $-15x^3y^3 - 3x^3y^2$       [B]  $-15x^3y^3 - 3x^3y$   
[C]  $-15x^3y^3 + xy$               [D]  $-15x^2y^2 - 3x^2y$

3. 060708a, P.I. A.A.13

What is the product of  $(c + 8)$  and  $(c - 5)$ ?

- [A]  $c^2 + 13c - 40$               [B]  $c^2 + 3c - 40$   
[C]  $c^2 - 40$                       [D]  $c^2 - 3c - 40$

4. 060015a, P.I. A.A.13

The expression  $(x - 6)^2$  is equivalent to

- [A]  $x^2 + 12x + 36$               [B]  $x^2 - 36$   
[C]  $x^2 - 12x + 36$               [D]  $x^2 + 36$

5. 010430a, P.I. A.A.13

The expression  $(a^2 + b^2)^2$  is equivalent to

- [A]  $a^4 + 2a^2b^2 + b^4$               [B]  $a^4 + 4a^2b^2 + b^4$   
[C]  $a^4 + b^4$                       [D]  $a^4 + a^2b^2 + b^4$

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[1] C

[2] A

[3] B

[4] C

[5] A