

Lesson 9-2: Multiplying and Factoring

Part 1: Distributing a Monomial

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

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

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

Part 2: Factoring a Monomial from a Polynomial

2. 060421a, P.I. A.A.20

If $3x$ is one factor of $3x^2 - 9x$, what is the other factor?

- [A] $x - 3$ [B] $3x$
[C] $x + 3$ [D] $x^2 - 6x$

3. 060318a, P.I. A.A.20

If one factor of $56x^4y^3 - 42x^2y^6$ is $14x^2y^3$, what is the other factor?

- [A] $4x^2y - 3xy^2$ [B] $4x^2 - 3y^2$
[C] $4x^2 - 3y^3$ [D] $4x^2y - 3xy^3$

[1] A

[2] A

[3] C