

**A.APR.A.1: Operations with Polynomials 4a**

- What is the product of  $2x^2 - 5$  and  $3x^2$ ?
  - $6x^4 - 15x$
  - $6x^4 - 5$
  - $6x^2 - 15x$
  - $6x^2 - 15$
- What is the product of  $-3x^2y$  and  $(5xy^2 + 2y)$ ?
  - $-15x^2y^2 - 3x^2y$
  - $-15x^2y^2 - 3x^2y$
  - $-15x^2y^2 - 3x^2y$
  - $-15x^2y^2 + 6y$
- What is the product of  $(x + 8)$  and  $4x - 3$ ?
  - $x^2 + 3x - 40$
  - $x^2 - 3x - 40$
  - $x^2 + 13x - 40$
  - $x^2 - 40$
- What is the product of  $(2x + 3)$  and  $(x - 7)$ ?
  - $2x^2 - 14$
  - $2x^2 - 5x - 14$
  - $2x^2 - 18x - 14$
  - $2x^2 - 22x - 14$
- The expression  $(x - 6)^2$  is equivalent to
  - $x^2 - 36$
  - $x^2 + 36$
  - $x^2 - 12x + 36$
  - $x^2 + 12x + 36$
- The expression  $(a^2 + b^2)^2$  is equivalent to
  - $a^4 + b^4$
  - $a^4 + a^2b^2 + b^4$
  - $a^4 + 2a^2b^2 + b^4$
  - $a^4 + 4a^2b^2 + b^4$
- The expression  $(2x + 3)^2 - 3(2x^2 - 1)$  is equivalent to
  - $4x + 3$
  - $2x + 9$
  - $3$
  - $-1$
- Which trinomial is equivalent to  $3(x - 2)^2 - 3(x - 1)^2$ ?
  - $3x^2 - 3x - 18$
  - $3x^2 - 3x - 14$
  - $3x^2 - 14x + 30$
  - $3x^2 - 14x + 18$
- What is the product of  $x^2 - 2x + 3$  and  $x + 1$ ?
  - $x^2 - x^2 + x + 3$
  - $x^2 - 2x^2 + 3x$
  - $x^2 - 3x + 2$
  - $x^2 - x + 4$
- What is the product of  $3x + 3$  and  $4x^2 - 3x + 6$ ?
  - $8x^3 - 2x^2 + 3x + 18$
  - $8x^3 - 3x^2 - 3x + 18$
  - $8x^3 + 2x^2 - 3x + 18$
  - $8x^3 + 2x^2 + 3x + 18$
- When  $(2x - 3)^2$  is subtracted from  $5x^2$ , the result is
  - $x^2 - 12x - 9$
  - $x^2 - 12x + 9$
  - $x^2 + 12x - 9$
  - $x^2 + 12x + 9$
- Fred is given a rectangular piece of paper. If the length of Fred's piece of paper is represented by  $2x - 6$  and the width is represented by  $3x - 5$ , then the paper has a total area represented by
  - $5x - 11$
  - $6x^2 - 28x + 30$
  - $18x - 22$
  - $6x^2 - 6x - 11$

# Multiple Choice Quadratic Function Test Questions

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