

Polynomial Operations and Quadratic Functions End-of-Unit Assessment

Circle the letter of the best answer.

- What is the result of $(8x^2 + 7x - 2) - (x^2 - 3x + 1)$?
 - $7x^2 + 10x - 3$
 - $7x^2 + 4x - 3$
 - $8x^2 + 4x - 1$
 - $8x^2 + 10x - 2$
- What is the result of $(x - 12)(3x + 4)$?
 - $3x^2 - 48$
 - $x^2 - 32x - 48$
 - $3x^2 - 36x + 48$
 - $3x^2 - 32x - 48$
- What expression represents the factored form of $4x^2 - 16$?
 - $(4x + 4)(x - 4)$
 - $4(x + 2)^2$
 - $4(x + 2)(x - 2)$
 - $4(x - 4)^2$
- What expression represents the factored form of $x^4 - 81$?
 - $(x^2 - 3)(x^2 + 9)$
 - $(x - 9)(x + 9)$
 - $(x^2 - 9)(x^2 + 9)$
 - $(x - 3)(x + 3)$
- Solve $2x^2 - 5x + 2 = 0$ for x .
 - $x = 0.5$ or $x = 2$
 - $x = 0.5$
 - $x = 2$
 - $x = -0.5$ or $x = 2$
- Solve $x^2 + 20x = 44$ for x .
 - $x = 0$ or $x = -20$
 - $x = -2$ or $x = 22$
 - $x = \pm 12$
 - $x = 2$ or $x = -22$

continued

