

5. Simplify: $(-3x - 5) - (5x^2 - 2x + 8)$. Choose the standard form for the answer.

A. $-5x^2 - 5x + 3$

B. $-8x^2 - 2x + 3$

C. $-8x^2 - 2x + 3$

D. $-5x^2 - x - 13$

6. Find the product of $(6x^2 + 8)(3x^2 - 5x + 7)$

A. $18x^4 - 5x + 56$

B. $18x^4 + 30x^3 + 66x^2 + 40x + 56$

C. $18x^4 - 30x^3 + 66x^2 - 40x + 56$

D. $18x^2 - 5x + 15$

7. What is the product of $(4x - 3)(4x + 3)$?

A. $16x^2 + 9$

B. $16x^2 - 9$

C. $16x^2 - 12x - 9$

D. $16x^2 - 24x - 9$

8. Which of the following shown has a GCF of $4x^3y$ with $16x^4y$

A. $4xy$

B. $16x^3y$

C. $4x^3$

D. $4x^3y$

9. What is the factored form of $x^2 - x - 42$?

A. $(x - 7)(x - 6)$

B. $(x - 7)(x + 6)$

C. $x(x - 1) - 42$

D. $(x - 10)(x + 2)$

10. Factor $15y^2 + 10y - 40$

A. $5(y + 4)(3y - 2)$

B. $(5y - 10)(3y + 4)$

C. $5(y - 2)(3y + 4)$

D. $5(y + 2)(3y - 4)$

11. Factor the perfect square trinomial $16y^2 - 24y + 9$

A. $(4y - 6)(4y - 3)$

B. $(4y + 3)(4y - 3)$

C. $(4y - 3)^2$

D. $(4y + 3)^2$

19. Name the two solutions of $36 = (x - 5)^2$.

Solutions = _____ and _____

20. Use the quadratic formula to solve $2x^2 + 4x = 1$. Which of the following are the solutions to the nearest hundredth?

A. 0.22 *and* - 2.22

B. 0.45 *and* - 4.45

C. 2.22 *and* - 0.22

D. -0.29 *and* - 1.71