

SECONDARY MATH II
DOMAIN 1A.APR.1 PAGE 6 DAY 2
MULTIPLYING POLYNOMIALS

NAME _____
DATE _____
CLASS _____

Find the product of each.

1. $5(x + 2)$

2. $7x(x + y)$

3. $5x(6x^2 + 10)$

4. $-2x^2(-2 + 6xy)$

5. $-6x(8 - 6x^3)$

6. $(x + 5)(y + 10)$

7. $(x + 2)(x + 5)$

8. $(x - 6)(x + 9)$

9. $(x + 3)(x + 3)$

10. $(x - 5)(x + 5)$

11. $(y - 7)(y + 7)$

12. $(x + 7)^2$

13. $(x - 10)^2$

14. $(x^2 + 1)(x + 9)$

15. $(x - 5)(2x + 13)$

16. $(3m + 6)(4m + 11)$

17. $(3x + 10)(2x - 5)$

18. $(6 - x)(x + 100)$

19. $(y + 3)(y^2 - 6y + 1)$

20. $(x + 2)(x^2 + 5x + 6)$

21. What is the area of a rectangle with length $(3x + 2)$ inches and width $(4x + 10)$ inches?
Write your answer as an expression in terms of x .

22. Correct the Error

There is an error in the student work shown below:

Question: Simplify $(x - 3)(x - 7)$.

Solution:

$$\begin{aligned}(x - 3)(x - 7) \\ x \cdot x - 7 \cdot x - 3 \cdot x - 21 \\ x^2 - 10x - 21\end{aligned}$$

What is the error? Explain how to solve the problem.