

Name: _____ Date: _____

Unit 4 Review

Add

1. $(2x^2 - x - 6) - (7x^2 - 8x - 4)$

2. $(2x^2 - x - 6) - (7x^2 - 8x - 4)$

Multiply

1. $2x^2(3x^3 + 5x^2 - 9x)$

2. $(5x - 6)(9x - 3)$

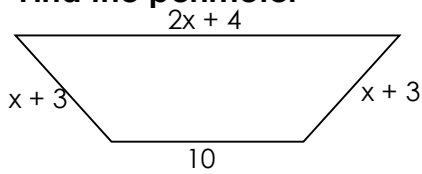
Multiply

3. $7x^2(8x^4 + 2)$

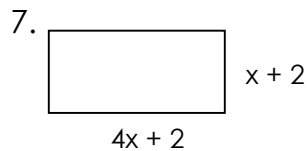
4. $(x + 6)^2$

5. $(x - 9)(x + 5)$

6. **Find the perimeter**



Find the area.



Factor each of the following expressions. Remember to GCF first!

10. $6x^3 + 15x^2$
GCF ONLY

11. $8x^4 + 12x^3 - 16x^2$
GCF ONLY

12. $x^2 + 9x + 18$

13. $x^2 + 7x - 44$

14. $x^2 - 81$

15. $x^2 + 16x + 64$

16. $x^2 - 5x - 24$

17. $5x^3 - 40x^2 + 60x$

18. $2x^2 - 11x + 15$

19. $4x^2 - 121$

20. $3x^2 + 16x + 21$

21. $4x^2 - 15x + 11$

22. $4x^2 - 10x + 6$

23. $6x^2 - 18x - 24$

24. $9x^2 - 12x + 4$

25. $x^4 - 81$

26. The area of a rectangle is $(8x^2 + 8x + 2)$ cm². The width is $(2x + 1)$ cm. What is the length of the **rectangle**?

27. The area of a square is $(36d^2 - 36d + 9)$ in². What expression represents the length of a side of the **square**?