Answer Key- Part 2

Ch 4

 $\overline{1a. 268 \text{ cm}^2}$ b. 8800 cm^2 c. 414.69 cm^2 2. 509 cm^2

12. $-4x^2 - 2x + 10$

13. $-4x^2 + 5x - 2$

 Ch 6

 1. 2
 2. -2
 3. 7
 4. 23
 5. $-3x^2 - 5$ 6. $2x^2 - 21x + 9$

 7. $15x^2 - 12x$ 8. $4x^2 - 10x - 6$ 9. $-2x^2 + 3x - 5$ 10.

 11a. 4,2,2,-7,x,y b. 5,3,-2,-1,1,a,b c. 4,3,3,4,-8,x,y,z

9. $-2x^2 + 3x - 5$ 10. -2 c. 4,3,3,4,-8,x,y,z

14. $9x^2 - 10x - 3$

15. $18x^3 - 6x^2 + 15x$

18. 4x+12

21. 8x - y

16. $3x^2 + 7x - 20$

19. $5x^2 + 20x$

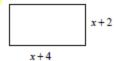
17. $-6x^2y^2 - 2xy^2 + 3$

20. 5x + 8

11. Complete the table for each polynomial

	Degree	# of terms	Coefficients	Variables
a) $2x^3y - 7xy$				
b) $-2ab^2 - ab + b^5$				
c) $3x^2yz + 4yz - 8z^2$				

- 12. Simplify the polynomial $-5x^2 + 3x + x^2 5x + 10$.
- 13. Determine the sum $(2x^2 + 4x 5) + (-6x^2 + x + 3)$.
- 14. Determine the difference of $(4x^2-3x-1)-(-5x^2+7x+2)$.
- 15. Determine the product of $(-3x)(-6x^2+2x-5)$.
- 16. Determine the product of (3x-5)(x+4).
- 17. Determine the quotient of $(24x^3y^2 + 8x^2y^2 12x) \div (-4x)$.
- 18. Express the perimeter of this rectangle as a polynomial and simplify.



19. Express the area of this rectangle as a polynomial and simplify.



- 20. A rectangle has a perimeter of (16x + 24) cm. If the width is (3x + 4) cm. find the length.
- The perimeter of the triangle below is 12x-8y. Show an expression that determines the length of the missing side and then simplify completely.

