Algebra I	Chapter 8 Review	Name: Date:	Hour:	
answers on the I. Multiple-Constant work area box	v all of your work if the line provided. Choice - You MUST shows if you want ANY creates of the polynomial.	you want ful how work for	l credit!! Plea	
work area:				
2. A ⁵ b ² +	13a³b³ - 6a⁵b ⁷		. •	
work area:				

descending order.	
3. $4xy^4 - 3xy^5 - 6y^3 + 2x^2$	
work area:	
Solve. 4. (2g ⁴ h ²) ³	
T. (29 ft)	
work area:	
5. (3a -2a²) + (4 + 6a)	
work area:	

Arrange the terms of the polynomial so that the powers of x are in

Simplify. Assume that no denominator is equal to zero. (Remember, you cannot have any negative exponents in your answers.) (You may want to regroup numbers with numbers, same letters with letters, etc, so it's easier to apply your exponent rules)

6.
$$-2x^3 \cdot x^5$$

6.

7.
$$(5a^2b^6)(23ab^5)$$

7.____

8.
$$(xy^4)^2$$

8.____

9.
$$3ab^7 + 2(ab^2)^4 + 4(a^2b^4)^2$$

9.

10.
$$\frac{-25\text{m}^6}{5\text{m}^{10}}$$

10.____

12.
$$\frac{(4x^2y^6)^3}{(-2x^3y^9)^2}$$

13. Find the degree of the polynomial
$$2x^2y - 4x^5 + 6xy^4$$

14. Arrange the terms of the polynomial so that the powers of x are in descending order. $3x^3y - xy^4 - 3y^2 + x^5$

$$3x^3y - xy^4 - 3y^2 + x^5$$

Find each sum or difference.

15.
$$(3m^2 + 5m - 2) - (4m^2 + 7m - 4)$$

16.
$$(3y^2 + 5y - 6) + (2y^2 - 8y - 2)$$

17.
$$(3a^3 - 4b) - (a^3 - b)$$

Find each product.

18.
$$3x^2y(4x^3y - 2xy^3 + 6xy^4)$$

19.
$$(4r^3 + 4s^3)(2r^3 - 4s^4)$$

20.
$$(2n + 5)(2n^2 - 6n + 4)$$

21.
$$(3y + 7)^2$$
 (rewrite this before you solve)

22.
$$(x + 5r)(x - 5r)$$

22._____

Solve each equation.

23.
$$5x + 8 = 3 + 2(3x - 4)$$

23.

24.
$$-5(2n-3)=7(3-n)$$

24._____

26. Alyssa wants to increase her book collection by a power of two this year and then increase it again by a power of two next year. If she has 2 books now, how many will she have after the second year?