

**Algebra 1B Homework Check (7-7)**

(Please attach homework to this sheet and fill out the questions below.)

**Pg. 497: 1-23. 66-69. 90-93****Multiply.**

1.  $(2x^2)(7x^4)$

2.  $(-5mn^3)(4m^2n^2)$

3.  $(6rs^2)(s^3t^2)\left(\frac{1}{2}r^4t^3\right)$

4.  $\left(\frac{1}{3}a^5\right)(12a)$

5.  $(-3x^4y^2)(-7x^3y)$

6.  $(-2pq^3)(5p^2q^2)(-3q^4)$

7.  $4(x^2 + 2x + 1)$

8.  $3ab(2a^2 + 3b^3)$

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

10.  $-3x(x^2 - 4x + 6)$

11.  $5x^2y(2xy^3 - y)$

12.  $5m^2n^3 \cdot mn^2(4m - n)$

13.  $(x + 1)(x - 2)$

14.  $(x + 1)^2$

15.  $(x - 2)^2$

16.  $(y - 3)(y - 5)$

17.  $(4a^3 - 2b)(a - 3b^2)$

18.  $(m^2 - 2mn)(3mn + n^2)$

19.  $(x + 5)(x^2 - 2x + 3)$

20.  $(3x + 4)(x^2 - 5x + 2)$

21.  $(2x - 4)(-3x^3 + 2x - 5)$

22.  $(-4x + 6)(2x^3 - x^2 + 1)$

23.  $(x - 5)(x^2 + x + 1)$

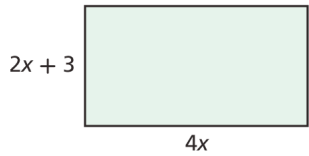
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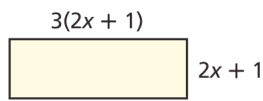
Hour: \_\_\_\_\_

**Geometry** Write a polynomial that represents the area of each rectangle.

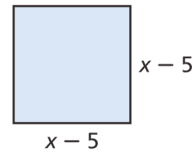
66.



67.

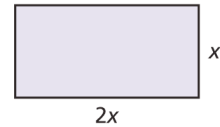


68.



**69 Sports** The length of a regulation team handball court is twice its width.

- Write a polynomial that represents the area of the court.
- The width of a team handball court is 20 meters. Find the area of the court.



**Simplify.**

90.  $6x^2 - 2(3x^2 - 2x + 4)$

91.  $x^2 - 2x(x + 3)$

92.  $x(4x - 2) + 3x(x + 1)$

**93.** The diagram shows a sandbox and the frame that surrounds it.

- Write a polynomial that represents the area of the sandbox.
- Write a polynomial that represents the area of the frame that surrounds the sandbox.

