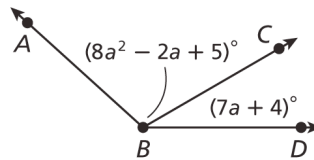


Algebra 1B Homework Check (7-6)

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

Pg. 487: 15-24. 34 - 42. 45. 57. 69 - 72

15. **Geometry** Write a polynomial that represents the measure of angle ABD .



Add or subtract.

16. $4k^3 + 6k^2 + 9k^3$

17. $5m + 12n^2 + 6n - 8m$

18. $2.5a^4 - 8.1b^4 - 3.6b^4$

19. $2d^5 + 1 - d^5$

20. $7xy - 4x^2y - 2xy$

21. $-6x^3 + 5x + 2x^3 + 4x^3$

22. $x^2 + x + 3x + 2x^2$

23. $3x^3 - 4 - x^3 - 1$

24. $3b^3 - 2b - 1 - b^3 - b$

34. **Geometry** The length of a rectangle is represented by $4a + 3b$, and its width is represented by $7a - 2b$. Write a polynomial for the perimeter of the rectangle.

Add or subtract.

35. $(2t - 7) + (-t + 2)$

36. $(4m^2 + 3m) + (-2m^2)$

37. $(4n - 2) - 2n$

38. $(-v - 7) - (-2v)$

39. $(4x^2 + 3x - 6) + (2x^2 - 4x + 5)$

40. $(2z^2 - 3z - 3) + (2z^2 - 7z - 1)$

41. $(5u^2 + 3u + 7) - (u^3 + 2u^2 + 1)$

42. $(-7h^2 - 4h + 7) - (7h^2 - 4h + 11)$

Name: _____

Class: _____

Hour: _____

45. **/// ERROR ANALYSIS ///** Two students found the sum of the polynomials $(-3n^4 + 6n^3 + 4n^2)$ and $(8n^4 - 3n^2 + 9n)$. Which is incorrect? Explain the error.

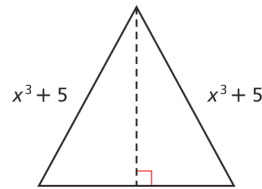
A

$-3n^4 + 6n^3 + 4n^2 + 0n$
$+ 8n^4 + 0n^3 - 3n^2 + 9n$
$5n^4 + 6n^3 + n^2 + 9n$

B

$-3n^4 + 6n^3 + 4n^2$
$+ 8n^4 - 3n^2 + 9n$
$5n^4 + 3n^3 + 13n^2$

57. **Geometry** The legs of the isosceles triangle at right measure $(x^3 + 5)$ units. The perimeter of the triangle is $(2x^3 + 3x^2 + 8)$ units. Write a polynomial that represents the measure of the base of the triangle.



Simplify. (Lesson 7-3)

69. $b^4 \cdot b^7$

70. $cd^4 \cdot (c^{-5})^3$

71. $(-3z^6)^2$

72. $(j^3k^{-5})^3 \cdot (k^2)^4$