

Algebra 1B Homework Check (8-6)

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

Pg. 569: 1-18

Tell whether each polynomial is completely factored. If not, factor it.

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

2. $2(4x^3 - 3x^2 - 8x)$

3. $2k^2(4 - k^3)$

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

5. $4(4p^4 - 1)$

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

Factor each polynomial completely. Check your answer.

7. $3x^5 - 12x^3$

8. $4x^3 + 8x^2 + 4x$

9. $8pq^2 + 8pq + 2p$

10. $18rs^2 - 2r$

11. $mn^5 - m^3n$

12. $2x^2y - 20xy + 50y$

13. $6x^4 - 3x^3 - 9x^2$

14. $3y^2 + 14y + 4$

15. $p^5 + 3p^3 + p^2 + 3$

16. $7x^5 + 21x^4 - 28x^3$

17. $2z^2 + 11z + 6$

18. $9p^2 - q^2 + 3p + q$