

Chapter 9 Practice Test 2

Simplify each expression and put your final answer in the blank to the left of the question.

_____ 1. $(n + 7)(n + 10)$

_____ 8. $\sqrt{120}$

_____ 2. $(n - 5)(n + 5)$

_____ 9. $\sqrt{16a^5}$

_____ 3. $(n + 2)^2$

_____ 10. $\sqrt{a^4b^3c^7}$

_____ 4. $(4n - 3)^2$

_____ 11. $\sqrt[3]{24a^6}$

_____ 5. $(6n + 2)(n + 4)$

_____ 12. $\sqrt[3]{10a^3b^3}$

_____ 6. $(3n - 5)(n^2 - 4n + 3)$

_____ 13. $\sqrt{a^{81}}$ (think)

_____ 7. $(n + 2)(n^2 + 4n + 5)$

_____ 14. $\sqrt[4]{a^6b^4c^2}$

Factor each expression completely and put your answer in the blank.

_____ 15. $16x^3 + 17x^4$

_____ 16. $a^2b^3 + a^5b^4$

_____ 17. $10y^2 + 20y^4$

_____ 18. $20x^3y^4 + 30y^5$

_____ 19. $6x^2 + 12x + 15$

_____ 20. $bc^4d^3 - ab^3cd^3$