

Chapter 9 Practice Test 1

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

_____ 1. $(n + 4)(n + 10)$

_____ 8. $\sqrt{18}$

_____ 2. $(n - 5)(n + 3)$

_____ 9. $\sqrt{12a^5}$

_____ 3. $(n - 4)(n - 1)$

_____ 10. $\sqrt{a^6b^3}$

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

_____ 11. $\sqrt[3]{16a^5}$

_____ 5. $(4n + 2)(n + 3)$

_____ 12. $\sqrt[3]{9a^6b^4}$

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

_____ 13. $\sqrt{600}$

_____ 7. $(3n - 1)^2$

_____ 14. $\sqrt[4]{a^9b^6}$

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

_____ 15. $6x^3 + 10x^2$

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

_____ 17. $12y^2 + 18y^4$

_____ 18. $20x^3y + 25x^2y^5$

_____ 19. $8x^2 + 12x + 20$

_____ 20. $a^4bc^2d^3 - a^2b^3cd^2$