

# Skills Review 4: Factoring

NAME: \_\_\_\_\_ DUE: \_\_\_\_\_

1. $25x^2 - 81$	2. $9x^2 - 1$
3. $2v^2 - 50$	4. $2v^2 - 50v$
5. $x^2 - y^2$	6. $x^2 + 16y^2$
7. $w^2 - 3w - 10$	8. $17m + m^2 - 18$
9. $x^2 - 3x - 10$	10. $x^2 - 9x + 18$

11. $x^2 + 12x + 32$	12. $2x^2 - 14x + 30$
13. $16x^2 - 40x + 25$	14. $3x^2 + 18x + 27$
15. $242p^2 - 162$	16. $a^2 + 2ab + b^2$

**ANSWERS ⇒**

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|----|--------------------|-----|-----------------------|
| 1. | $(5x - 9)(5x + 9)$ | 9.  | $(x + 4)(x - 7)$      |
| 2. | $(3x - 1)(3x + 1)$ | 10. | $(x - 3)(x - 6)$      |
| 3. | $2(v - 5)(v + 5)$  | 11. | $(x + 4)(x + 8)$      |
| 4. | $2v(v - 25)$       | 12. | $2(x^2 - 7x + 15)$    |
| 5. | $(x - y)(x + y)$   | 13. | $(4x - 5)^2$          |
| 6. | PRIME!             | 14. | $3(x + 3)^2$          |
| 7. | $(w + 2)(w - 5)$   | 15. | $2(11p - 9)(11p + 9)$ |
| 8. | $(m - 1)(m + 18)$  | 16. | $(a + b)^2$           |