

$$(b-c)(b+c)$$



$$x^2 + 4x + 4$$



$$(2p+3)(2p-3)$$



$$b^2 - c^2$$



$$(x+2)^2$$



$$4p^2 - 9$$



$$(p+5)(p-5)$$



$$(5n+3)^2$$



***OLD POLY***

$$25n^2 + 30n + 9$$



$$25n^2 - 10n + 1$$



$$a^2 - 6a + 9$$



$$25x^2 - 16y^2$$



$$(5n - 1)^2$$



$$(a - 3)^2$$



$$(5x + 4y)(5x - 4y)$$



$$c^2 - 4$$



$$(c + 2)(c - 2)$$



$$p^2 - 49$$



$$a^2 - 10a + 25$$



$$p^2 - 64$$



$$(p + 7)(p - 7)$$



$$(a - 5)^2$$



$$(p + 8)(p - 8)$$



$$(a-2)^2$$



$$a^2 - 4a + 4$$



$$(2p+5)(2p-5)$$



$$(b+4)(b-4)$$



$$x^2 - 2x + 1$$



$$(x+1)(x-1)$$



$$b^2 - 16$$



$$(x-1)^2$$



$$x^2 - 1$$



$$x^2 + 12xy + 36y^2$$



$$(x+6y)^2$$



$$4p^2 - 25$$



$$p^2 - 25$$



$$(4a - 1)^2$$



$$16a^2 - 8a + 1$$



$$(3p + 5)(3p - 5)$$



$$4a^2 + 4a + 1$$



$$9x^2 - 6xy + y^2$$



$$9p^2 - 25$$



$$(2a + 1)^2$$



$$(3x - y)^2$$



## Student Worksheet

I. Match the difference of square factors to their product.

- |                       |                     |
|-----------------------|---------------------|
| 1. $(a+5)(a-5)$       | A. $49a^2 - 1$      |
| 2. $(2+3a)(2-3a)$     | B. $9x^2 - 64y^2$   |
| 3. $(7a-1)(7a+1)$     | C. $x^2 - y^2$      |
| 4. $(4a+b)(4a-b)$     | D. $81x^2 - 100y^2$ |
| 5. $(9x+10y)(9x-10y)$ | E. $4 - 9a^2$       |
| 6. $(x+y)(x-y)$       | F. $9x^2 - 49y^2$   |
| 7. $(6x-11y)(6x+11y)$ | G. $16a^2 - b^2$    |
| 8. $(3x+7y)(3x-7y)$   | H. $4x^2 - 49y^2$   |
| 9. $(2x+7y)(2x-7y)$   | I. $a^2 - 25$       |
| 10. $(3x+8y)(3x-8y)$  | J. $36x^2 - 121y^2$ |

II. Match the perfect square factors to their product.

- |                 |                         |
|-----------------|-------------------------|
| 11. $(x+2)^2$   | K. $u^2 + 16u + 64$     |
| 12. $(a-5)^2$   | L. $4b^2 + 12b + 9$     |
| 13. $(u+8)^2$   | M. $64x^2 - 16x + 1$    |
| 14. $(3x+1)^2$  | N. $4a^2 + 4ab + b^2$   |
| 15. $(2b+3)^2$  | O. $x^2 + 4x + 4$       |
| 16. $(10d-4)^2$ | P. $9u^2 - 12uv + 4v^2$ |
| 17. $(8x-1)^2$  | Q. $9x^2 + 6x + 1$      |
| 18. $(4w+5)^2$  | R. $100d^2 - 80d + 16$  |
| 19. $(2a+b)^2$  | S. $16w^2 + 40w + 25$   |
| 20. $(3u-2v)^2$ | T. $a^2 - 10a + 25$     |

III. Circle the following perfect square trinomials.

- |                       |                            |
|-----------------------|----------------------------|
| 21. $n^2 + 6n + 9$    | 29. $4m^2 + 8m + 16$       |
| 22. $x^2 - 14x + 49$  | 30. $9w^2 - 24w + 16$      |
| 23. $a^2 + 2a + 4$    | 31. $25t^2 - 45t + 9$      |
| 24. $c^2 + 2c + 1$    | 32. $a^2 + 2ab + b^2$      |
| 25. $k^2 - 5k + 25$   | 33. $4m^2 + 20mn + 25n^2$  |
| 26. $x^2 - 12x + 36$  | 34. $9a^2 - 27ab + 9b^2$   |
| 27. $4t^2 + 12t + 9$  | 35. $100u^2 - 60uv + 9v^2$ |
| 28. $81x^2 - 18x + 1$ | 36. $100a^2 + 20ab + 4b^2$ |