

Factorize:($a^2 - b^2$ type)

Name of students:

Roll no:

Match the following:

- | | |
|------------------------------------|--|
| 1. $x^2 - 16$ | $(x^2 + 9)(x + 3)(x - 3)$ |
| 2. $49 - x^2$ | $(4x^2 + 25y^2)(2x + 5y)(2x - 5y)$ |
| 3. $4x^2 - 9y^2$ | $(1 + 6xy)(1 - 6xy)$ |
| 4. $25x^2 - y^2$ | $(4 + a - b)(4 - a + b)$ |
| 5. $1 - 36x^2y^2$ | $(7 + x)(7 - x)$ |
| 6. $x^4 - 81$ | $(2x + 3y)(2x - 3y)$ |
| 7. $16 - y^4$ | $(a + b + 2)(a + b - 2)$ |
| 8. $16x^4 - 625y^4$ | $(x + 4)(x - 4)$ |
| 9. $\frac{1}{x^2} - \frac{1}{y^2}$ | $(5x + y)(5x - y)$ |
| 10. $\frac{x^2}{4} - 225$ | $(\frac{1}{x} + \frac{1}{y})(\frac{1}{x} - \frac{1}{y})$ |
| 11. $(a + b)^2 - 4$ | $(4 + y^2)(2 + y)(2 - y)$ |
| 12. $(a - b)^2 - 9$ | $(3a - b)(a + b)$ |
| 13. $16 - (a - b)^2$ | $(x + y + 3z)(x + y - 3z)$ |
| 14. $4a^2 - (a - b)^2$ | $(a - b + 3)(a - b - 3)$ |
| 15. $(x^2 + 2xy + y^2) - 9z^2$ | $(\frac{x}{2} - 15)(\frac{x}{2} + 15)$ |

Subject Teacher: Govinda Paudel (Skyrider School)