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)

LIVEWORKSHEETS