Name: Date: Period:

Ways to solve an equation with an x^2 in it:

- Factor
- Take the square root
- Quadratic Formula
- Completing the Square

Solve the following Quadratics using the "best" method on a separate piece of paper. Leave your answers in simplest radical form when necessary.

1. $x^2 - 5x = -6$	2. $2x^2 + x = 6$
3. $8x^2 + 18x = 5$	4. $48 - 3y^2 = 0$
5. $a^2 + 16 = 25$	6. $3x^2 + 12x + 12 = 0$
7. $-2n^2 + 10 = -6$	8. $(2x + 5)^2 = 27$
9. $(4x - 1)^2 = 81$	10. $3(2x + 3)^2 = 45$
11. $x^2 + 10x - 1 = 0$	12. $x^2 - 14x = 9$
13. $x^2 - 10x = -41$	14. $14x^2 + 28x = 9$
15. $2x^2 + 32x - 10 = 6$	16. $4x^2 - 3x + 9 = 0$
17. $3x^2 - 9x + 2 = 7$	18. $12x^2 + 80x - 28 = 0$
19. $5x^2 + 3 = x^2 + 51$	20. $x^2 = 6$