40 Problems in Factoring by the Difference of Squares
(Part 1)

PROBLEMS

For each of the following expressions, factor by the method difference of squares.

1. $x^2 - 3^2$.

2. $x^2 - 4^2$.

3. $x^2 - 1^2$.

4. $x^2 - 25$.

5. $x^2 - 36$.

6. $x^2 - 144$.

7. $49 - x^2$.

8. $1 - x^2$.

9. $81 - x^2$.

10. $4x^2 - 9$.

11. $16x^2 - 1$.

12. $49x^2 - 25$.

13. $25 - 4x^2$.

14. $36 - 9x^2$.

15. $1 - 16x^2$.

16. $9x^2 - y^2$.