

ACTION

RESPONSE

Fluency



1. $x^2 - y^2$

4. $64q^2 - 1$

7. $(x + y)^2 - 1$

10. $ax^2 - ay^2$

Factorise the following:

2. $t^2 - 36$

5. $121x^2 - 9$

8. $x^2 - \frac{y^2}{9}$

11. $2x^2 - 8$

3. $9x^2 - 25y^2$

6. $81x^2 - 9y^2$

9. $25a^2b^2 - 4x^2y^2$

12. $x^4 - y^4$

Reasoning



Evaluate the following without using a calculator:

1. $15^2 - 5^2$

2. $75^2 - 25$

3. $5.02^2 - 4.98^2$

4. $(4\frac{1}{2})^2 - (3\frac{1}{2})^2$

5. $(4\frac{3}{5})^2 - (2\frac{2}{5})^2$

Problem Solving



Without expanding the brackets, write:

$$(2x - 3y)(2x + 3y)(4x^2 + 9y^2)$$

as the difference of two squares.



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