DIFFERENCE OF TWO SQUARES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.

 $x^2 - 9$

3.

 $49 - 4a^2$

5.

121m4 - 100n4

7.

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

9

 $x^6 - 64y^6$

2.

 $16y^2 - 25$

4

 $81p^2 - 64q^2$

6.

 $x^4 - 16y^4$

8.

 $(2a + b)^2 - (a - 3b)^2$

10.

 $256 - (3x - 4)^4$

MASTER QUESTIONS



M1.

A square garden has an area of 144m². A smaller square patio of area 64m² is removed from one corner. What is the area of the remaining garden?

The product of two consecutive odd numbers is 143. Find the numbers.

M3.

A rectangular field is 10m longer than it is wide. If the area is 375m², find its dimensions.

The difference between the squares of two numbers is 72. If their sum is 18, find the numbers.

M5.

A right-angled triangle has hypotenuse (x + 3)cm and one leg (x - 3)cm. If the area is 54cm², find the length of the other leg.