1) The area of a rectangle is $20m^4n^6$. If the breadth of the rectangle is $4m^3n^2$, find the width of the rectangle.

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2) If the base and area of a parallelogram are $2gh$ and $8g^4h^5 + 2g^3h^3$ respectively, determine the height of the parallelogram.

_____

3) Find the breadth of a rectangle whose width and area of the rectangle are $x + 2$ and $x^2 + 5x + 6$ respectively.

_____

4) The area of a parallelogram is $2n^3 - 9n^2 + n + 12$. Calculate the base of the parallelogram if its height is $2n - 3$.

_____

5) The area and width of a rectangle are $10k^3 + 20k^2 - 15k$ and $5k$ respectively. What is the breadth of the rectangle?

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Dividing Polynomials - Shapes

Answer key

1) The area of a rectangle is $20m^4n^6$. If the breadth of the rectangle is $4m^3n^2$, find the width of the rectangle.

$5mn^4$

2) If the base and area of a parallelogram are $2gh$ and $8g^4h^5 + 2g^3h^3$ respectively, determine the height of the parallelogram.

$4g^3h^4 + g^2h^2$

3) Find the breadth of a rectangle whose width and area of the rectangle are $x + 2$ and $x^2 + 5x + 6$ respectively.

$x + 3$

4) The area of a parallelogram is $2n^3 - 9n^2 + n + 12$. Calculate the base of the parallelogram if its height is $2n - 3$.

$n^2 - 3n - 4$

5) The area and width of a rectangle are $10k^3 + 20k^2 - 15k$ and $5k$ respectively. What is the breadth of the rectangle?

$2k^2 + 4k - 3$