

Name : _____

Dividing Polynomials

Sheet 2

- 1) The area of a rhombus is $21c^3 - 5c^2 - 11c + 4$. If one of the diagonals measures $7c - 4$, determine the length of the other diagonal.

- 2) The height of a parallelogram is $g + 8$. If it has an area of $10g^2 + 71g - 72$, determine the base of the parallelogram.

- 3) The area of a rectangle is $10n^3 + 25n^2 + 15n$. Determine the length of the rectangle, if the width is n^2 .

- 4) Find the height of a rectangle if the length is $p^3 + 11p^2 + 27p - 6$ and the area is $p^4 + 12p^3 + 45p^2 - 6p$.

- 5) The volume of a rectangular prism is $5t^4 + 19t^3 + 11t^2 + 57t - 12$. If the length and width of the rectangular prism are $5t - 1$ and $t + 4$ respectively, determine the height.

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Dividing Polynomials

- 1) The area of a rhombus is $21c^3 - 5c^2 - 11c + 4$. If one of the diagonals measures $7c - 4$, determine the length of the other diagonal.

$$6c^2 + 2c - 2$$

- 2) The height of a parallelogram is $g + 8$. If it has an area of $10g^2 + 71g - 72$, determine the base of the parallelogram.

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- 3) The area of a rectangle is $10n^3 + 35n^2 + 25n$. Determine the length of the rectangle, if the width is n^2 .

- 4) Find the height of a rectangle if the length is $p^3 + 11p^2 + 27p - 6$ and the area is $p^4 + 12p^3 + 45p^2 + 54p - 36$.

$$2p^2 + 10p - 6$$

- 5) The volume of a rectangular prism is $5t^4 + 19t^3 + 11t^2 + 57t - 12$. If the length and width of the rectangular prism are $5t - 1$ and $t + 4$ respectively, determine the height.

$$t^2 + 3$$
