

Name : _____

Multiplying Polynomials: Applications

Sheet 2

1) A parallelogram has a base of $4d^2 - 8$ and a height of $d^4 + 2d^2 + 3d^5 + 6$. Find the area of the parallelogram.

2) Find the volume of the rectangular prism whose length, width and height are given by x^5 , $x^2 + 9z^6$ and $7v^3 - 5x^2$ respectively.

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3) If the side of a cube is $3x^2 + 2x - 1$, find the area of the cube.

4) The base and height of a rectangular prism are $2x^2 + 3x - 1$ and $3c^3$ respectively. Determine the volume.

5) What is the area of a rectangle, if the length and width are $11q^4$ and $7q^5 + 8q^3 - 5 - q$ respectively?

Multiplying Polynomials: Applications

- 1) A parallelogram has a base of $4d^2 - 8$ and a height of $d^4 + 2d^2 + 3d^5 + 6$. Find the area of the parallelogram.

$$12d^7 + 4d^6 - 24d^5 + 8d^2 - 48$$

- 2) Find the volume of the rectangular prism whose length, width and height are given by x^5 , $x^2 + 9z^6$ and $7v^3 - 5x^2$ respectively.

$$63x^5y^3z^6 - 45x^7v^3$$

- 3) If the side of a cube is $2m^4n^8 + 12m^2n^4$, find the area of the cube.

$$6m^4n^8 + 12m^2n^4$$

- 4) The base and height of a rectangular prism are $16c^6 + 12c^5 - 16c^4 + 3c^3$ and $3c^3$ respectively. Determine the volume of the rectangular prism.

$$16c^6 + 12c^5 - 16c^4 + 3c^3$$

- 5) What is the area of a rectangle, if the length and width are $11q^4$ and $7q^5 + 8q^3 - 5 - q$ respectively?

$$77q^9 + 88q^7 - 11q^5 - 55q^4$$

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