

Name : _____

Dividing Polynomials

Sheet 1

- 1) The area of a rectangle is $2r^5 - 15r^4 - 23r^3 + 5r^2 + 9r - 2$. Find the width of the rectangle, if the length is $r^2 - 9r + 2$.

- 2) Find the base of the triangle, if the area is $2u^4 + u^3 - 5u^2 - 39u + 35$ and the height is $2u - 5$.

- 3) The volume of a _____ the width and height of the rectangular _____ and the length.

- 4) Find the height of _____ $+ 41b + 15$ and the base of the paral _____

- 5) The area of a kite is $6k^3 + 11k^2 - 24k - 44$. If one of the diagonals measures $k^2 - 4$, determine the length of the other diagonal.

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