

Algebra / Factoring a quadratic in two variables

$$\begin{array}{c}
 5x^2 + 8xy - 4y^2 \\
 (5x - 2y)(5x + 10y) \\
 (5x - 2y)(x + 2y)
 \end{array}$$

$$\begin{array}{c}
 5x - 4 \\
 -20 \\
 -2 \quad +10 \\
 +8
 \end{array}$$

$$\begin{array}{c}
 x^2 + 7xy - 18y^2 \\
 (x - 2y)(x + 9y)
 \end{array}$$

$$\begin{array}{c}
 -18 \\
 -2 \quad +9 \\
 +7
 \end{array}$$

$$\begin{array}{c}
 x^2 \quad xy \quad y^2 \\
 (x \quad y)(x \quad y)
 \end{array}$$

FOIL $x^2 + 9xy - 2xy - 18y^2$
 $x^2 + 7xy - 18y^2$ Check your answer

$$\begin{array}{c}
 x^2 - 5xy - 14y^2 \\
 (x + 2y)(x - 7y)
 \end{array}$$

$$\begin{array}{c}
 -14y^2 \\
 +2y \quad -7y \\
 -5y
 \end{array}$$

Another way of thinking about the y's on the right

#ExponentsAndPolynomials

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