

Algebra 1 8.3

Multiply binomials using EWE

Multiply polynomials using EWE

distributive property

EWE

~~(FOIL = FAIL)~~

quadratic

★ standard form $2x^3 - 3x^2 + 3x$

X-factor

triangle puzzle (if time)

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b. $(2y^2 + 3y - 1)(3y^2 - 5y + 2)$

$$\begin{array}{r} 2y^2 + 3y - 1 \\ 3y^2 - 5y + 2 \end{array}$$

$$\begin{array}{r} 4y^2 \quad 6y \quad -2 \\ -10y^3 \quad -15y^2 \quad +5y \\ 6y^4 + 9y^3 \quad -3y^2 \end{array}$$

$$6y^4 + y^3 + 14y^2 + 11y + 2$$

Guided Practice

4A. $(3x - 5)(2x^2 + 7x - 8)$

$$\begin{array}{r} 2x^2 + 7x - 8 \\ 3x - 5 \\ \hline \end{array}$$

$$6x^3 + 11x^2 - 59x + 40$$

4B. $(m^2 + 2m - 3)(4m^2 - 7m + 5)$

$$\begin{array}{r} m^2 + 2m - 3 \\ 4m^2 - 7m + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5m^2 + 10m - 15 \\ -7m^3 - 14m^2 + 21m \\ 4m^4 + 8m^3 - 12m^2 \\ \hline 4m^4 + m^3 - 21m^2 + 31m - 15 \end{array}$$

