

Alg I 8.2 notes.notebook

8.2 Multiplying and Factoring

The BIG idea...

Use the distributive property to multiply a monomial and a polynomial

Simplify. Write in standard form.

1) $4x(3x - 7)$

2) $2x^2(4 - 5x)$

3) $3a(4a^2 + 5a - 1)$

4) $p(p + 2) - 3p(p - 5)$

Factor.

8) $8x - 12$

9) $9x^3 + 15x^2$

10) $10x^4 + 15x^3 - 5x^2 - 60x$

11) $a^3b + a^2b^2$

The other BIG idea...

Factoring a polynomial reverses multiplication. To factor, start by finding the greatest common factor (GCF).

Find the GCF of the monomials.

5) 16 and 28

6) $12x^2 - 16x$

7) $14y^3 + 42y^2 - 28y$