

Pre-Algebra

Aim: What does it mean to factor a polynomial expression completely?

Do Now:

Factor out the *GCF*.

a) $2x^2 - 14x + 24$

b) $2x^2 - 32$

Factor each polynomial expression into two binomials.

a) $x^2 - 7x + 12$

b) $x^2 - 16$

FACTORIZING COMPLETELY: Factor until you cannot factor anymore.

1) _____

2) _____

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1) $2y^2 + 2y - 4$

2) $5m^2 - 30m + 40$

3) $2r^2 + 12r + 10$

4) $3x^2 - 6x - 24$

5) $6x^2 - 6y^2$

6) $4a^2 - 36$

FACTOR OUT THE GCF FIRST!

7) $2x^2 - 2x - 12$

8) $5x^2 - 45$

9) $3x^2 + 27x + 54$

10) $2x^2 - 16x + 14$

11) $4x^2 + 12x - 16$

12) $x^4 - 81$

13) $4x^2 - 24x - 28$

14) $ax^2 - 18ax + 77a$

15) $4x^3 - 72x^2 - 160x$

16) $4x^2 - 4$



When factoring a binomial or trinomial completely, first factor out the _____.