

Review Polynomials Part 1
Multiplying polynomials, Factoring the difference of perfect squares and factoring the GCF

Multiply and Simplify each of the following.

1) $(4x - 3)(7x + 2)$

2) $(3x - 3)(4x^2 + 2x - 5)$

Write each number in prime-factorization form.

3) 328 _____

4) 484 _____

State the GCF (greatest common factor) for each pair of numbers

5) 180, 252 _____

6) 49, 98 _____

Factor each polynomial completely.

7) $x^2 - 9$

8) $4y^2 - 25$

9) $m^2 - 4n^2$

Factor. Write prime, if prime.

10) $3x^2 - 9x + 18$

11) $8x^3y^2 + 4x^3$

12) $-48a^2b^2 - 56a^3b - 56a^5b$

13) $3m^5n - 7mn^2 + 18$