

Day 5, Day Of Homework: Factoring Completely:

Directions: Completely factor 6-8 problems below. First, factor out GCF (including applicable variables!), then factor completely using a box/generic rectangle and diamond. Write answer as the factor and the product of the trinomial.

Factoring Polynomials: GCF and Quadratic Expressions

Factor each completely.

1) $3v^2 - 27v - 30$

2) $6n^2 + 72n + 192$

3) $2n^3 - 20n^2$

4) $2x^4 + 22x^3 + 56x^2$

5) $2vm^2 - 14vm$

6) $6m^2 + 12m - 144$

7) $5b^2k^2 + 25bk^2 - 250k^2$

8) $2x^2 + 28x + 96$

9) $6b^2a - 36ba - 162a$

10) $5b^2 + 45b$