

A Review of Factoring– More Practice with Basic Trinomials (with x^2 only)

Part One: Basic Factoring Review

Factor the following using either the greatest common factor (GCF) or grouping.

a. $x^2 + 7x + 6$

b. $x^2 + 9x + 20$

c. $x^2 + 17x + 72$

d. $x^2 - 6x + 9$

e. $x^2 - 7x + 12$

f. $x^2 - 15x + 50$

g. $x^2 - x - 12$

h. $x^2 - 1$

i. $x^2 - 16$

j. $x^2 - 36$

k. $x^2 - 36y^2$

l. $25 - x^2$

m. $25y^2 - x^2$

n. $25y^2 - 36x^2$

o. $x^2 - \frac{25}{81}$ (continue the pattern!!!)

p. $\frac{16}{25}x^2 - 9y^2$

Answer Key

a. $(x + 1)(x + 6)$

b. $(x + 4)(x + 5)$

c. $(x + 8)(x + 9)$

d. $(x - 3)^2$

e. $(x - 3)(x - 4)$

f. $(x - 5)(x - 10)$

g. $(x + 3)(x - 4)$

h. $(x + 1)(x - 1)$

i. $(x + 4)(x - 4)$

j. $(x + 6)(x - 6)$

k. $(x + 6y)(x - 6y)$

l. $(5 + x)(5 - x)$

m. $(5y + x)(5y - x)$

n. $(5y + 6x)(5y - 6x)$

o. $(x + \frac{5}{9})(x - \frac{5}{9})$

p. $(\frac{4}{5}x + 3y)(\frac{4}{5}x - 3y)$