

# Factoring and Grouping

Name: \_\_\_\_\_

1. Factor out the greatest common factor.

(A)  $2x - 14$

(B)  $6 - 9x$

(C)  $10x^2 + 15x$

(D)  $9x - 3y$

(E)  $4xy - 6x^2$

(F)  $4xy^2 + 10y^3$

(G)  $4x(x + 1) - 6(x + 1)$

(H)  $x(x - 1) + 3(2x - 2)$

(I)  $4x(x + 2) - (x + 2)^2$

2. Factor by grouping.

(A)  $x^2y + 5x^2 + 2y + 10$

(B)  $3x^2y + 2xy + 15x + 10$

(C)  $3xy - 2x - 6y + 4$

(D)  $x^3 - 4x^2 + 3x - 12$

(E)  $15 - 2x^3 + 3x^2 - 10x$

(F)  $12 - 4x^3 - 2x^4 + 6x$