Pg. A23 0.3B – Polynomials and Factoring

Ex 1:
Factor out the common factor.

(a) $5y-30$

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

Ex 2:
Find the greatest common factor such that the remaining factors have only integer coefficients.

$\frac{1}{3}y+5$

Ex 3:
Completely factor the difference of two squares.

$\frac{4}{25}y^2-64$

Ex 4:
Factor the perfect square trinomial.

$9x^2-12x+4$

Ex 5:
Factor the sum or difference of cubes.
$27x^3 + 8$

Ex 6:
Factor the trinomial.
$x^2 - 13x + 42$

Ex 7:
Factor by grouping.
$5x^3 - 10x^2 + 3x - 6$

Ex 8:
Factor the trinomial by grouping.
$2x^2 + 9x + 9$