

Section 5.3 Extra Practice

- Identify two integers with the given product and sum.
 - product = 12, sum = 13
 - product = 34, sum = 19
 - product = -33, sum = 8
 - product = -20, sum = -1
 - product = 54, sum = -15
- Factor, if possible.
 - $x^2 + 8x + 15$
 - $x^2 + 5x + 6$
 - $x^2 + 11x + 28$
 - $m^2 + 7m + 10$
 - $y^2 + 24y + 144$
- Factor, if possible.
 - $x^2 - 13x + 42$
 - $x^2 - 18x + 81$
 - $x^2 - x - 20$
 - $x^2 + 5x - 6$
 - $x^2 - x + 1$
- Factor each trinomial.
 - $x^2 + 9xy + 14y^2$
 - $x^2 - 8xy + 16y^2$
 - $x^2 - 8xy + 15y^2$
 - $m^2 + 7mn - 8n^2$
 - $a^2 - 6ab - 7b^2$
- Factor each trinomial. First check for a GCF.
 - $4x^2 + 24xy + 36y^2$
 - $2x^2 - 26x + 72$
 - $5x^2 - 5xy - 30y^2$
 - $-3x^2 - 48x - 165$
 - $3x^2 - 30x + 63$
- Factor.
 - $2x^2 + 13x + 15$
 - $3x^2 + 11xy - 4y^2$
 - $7a^2 - 47a + 30$
 - $10y^2 + 9y + 2$
 - $12x^2 - 8x - 15$
- Factor. First check for a GCF.
 - $12x^2 - 26x - 10$
 - $18x^2 - 3x - 36$
 - $75y^2 - 120y + 48$
 - $12x - 15xy - 18xy^2$
 - $40x^2y - 36xy^2 - 36y^3$
- Determine two values of b so that each trinomial can be factored.
 - $x^2 + bx + 10$
 - $x^2 + bx + 8$
 - $x^2 - bx + 12$
 - $m^2 + 6m + b$
 - $y^2 + 5y + b$
- Determine two values of k so that each trinomial can be factored.
 - $2x^2 + kx + 5$
 - $3x^2 + kx + 2$
 - $2x^2 + kx - 15$
 - $20m^2 + 23m + k$
 - $6y^2 + 17y + k$