Introduction to College Algebra

 $Topic:\ Factorization\ --\ Exercise\ 1$

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1. Factorization of the Difference of Two Squares

- 1. $x^2 16$
- 2. $9a^2 25b^2$
- 3. $4x^2 49y^2$
- 4. $36p^2 1$
- 5. $81m^2 100n^2$
- 6. $64x^2 144$
- 7. $121a^2 49b^2$
- 8. $144x^4 81y^4$

2. Factorization of the Sum and Difference of Two Cubes

- 1. $x^3 + 27$
- 2. $64y^3 125$
- 3. $a^3 8$
- 4. $125 x^3$
- 5. $27a^3 + b^3$
- 6. $8x^3 27y^3$
- 7. $x^3 + 64$
- 8. $216p^3 343q^3$

3. Factorization of Quadratic Expressions

- 1. $x^2 + 7x + 10$
- 2. $a^2b 5ab + 6b$
- 3. $x^2 9x + 20$
- 4. $2x^2 + 3x 2$

- 5. $3x^2 2x 1$
- 6. $4y^2 + 8y + 3$
- 7. $6x^2 + 11x + 3$
- $8. \ 5x^2 13xy + 6y^2$