

**Math 0406-Learning Outcome:
Factor the Greatest Common Factor**

Factor the GCF

1. $9a^2b - 6ab^2$

2. $4x^3 - 16x^2 + 20x$

3. $6x^4y^2 + 18x^3y^3 + 24x^2y^4$

4. $7y^9 - 49y^6 + 7y^3$

5. $3x^5 - 9x^4 - 4x^3$

6. $24x + 30$

7. $4x^2 + 100$

8. $12a^5 - 32a^2$

9. $a(x + y) + 4(x + y)$

10. $5x(a - 2b) - 3y(a - 2b)$

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Answers:

1. $3ab(3a - 2b)$

2. $4x(x^2 - 4x + 5)$

3. $6x^2y^2(x^2 + 3xy + 4y^2)$

4. $7y^3(y^6 - 7y^3 + 1)$

5. $x^3(3x^2 - 9x - 4)$

6. $6(4x + 5)$

7. $4(x^2 + 25)$

8. $4a^2(3a^3 - 8)$

9. $(x + y)(a + 4)$

10. $(a - 2b)(5x - 3y)$