

Factoring Worksheet

Date: _____ Period _____

Factor the common factor out of each expression.

1) $-4n^3 + 8n^2$

2) $-18mn^5 - 15mn^3 + 21mn^2$

3) $21x^5y^2 - 27x^6y + 27x^5y$

4) $60h^2j^3k^2 + 48hj^3k^3 + 72h^2j^3k + 12hj$

Factor each completely.

5) $2n^3 - 10n^2 + n - 5$

6) $32xy + 40x^2 - 4y - 5x$

7) $24mn + 42m - 28n - 49$

8) $25mn + 4n - 20m - 5n^2$

9) $x^2 + 2x - 24$

10) $x^2 + 10x + 24$

11) $3x^2 + 17x + 20$

12) $7b^2 + 5b$

13) $-6m^2 + 59m - 45$

14) $10a^2 - 53ab + 15b^2$

15) $4v^2 - 9$

16) $25k^2 + 10k + 1$

Answers to Factoring Worksheet (ID: 2)

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|--|----------------------------|--------------------------|
| 1) $4n^2(-n + 2)$ | 2) $3mn^2(-6n^3 - 5n + 7)$ | 3) $3x^5y(7y - 9x + 9)$ |
| 4) $12hj(5hj^2k^2 + 4j^2k^3 + 6hj^2k + 1)$ | 5) $(2n^2 + 1)(n - 5)$ | 6) $(8x - 1)(4y + 5x)$ |
| 7) $(6m - 7)(4n + 7)$ | 8) $(5m - n)(5n - 4)$ | 9) $(x + 6)(x - 4)$ |
| 11) $(3x + 5)(x + 4)$ | 12) $b(7b + 5)$ | 10) $(x + 6)(x + 4)$ |
| 15) $(2v + 3)(2v - 3)$ | 16) $(5k + 1)^2$ | 13) $-(m - 9)(6m - 5)$ |
| | | 14) $(a - 5b)(10a - 3b)$ |