

Factoring By Grouping

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Date _____ Block _____ Score _____

Factor each completely.

1) $12ab - 21a - 18a^2 + 14b$

2) $24az + 8bh^2 + 64ah^2 + 3bz$

3) $4mn - 42 + 24m - 7n$

4) $56ah + 25bk - 40ak - 35bh$

5) $7m^2h - 4nk + 14m^2k - 2nh$

6) $8xy + 3y^3 + 6x + 4y^4$

7) $28xy - 12x - 49y + 21$

8) $3xy - 9x - 7y + 21$

9) $21uv - 18u - 56v + 48$

10) $21ab + 6a^2 - 14b - 4a$

$$11) 14xy - 21x - 12y^3 + 18y^2$$

$$12) 35uv + 10u^3 + 56v + 16u^2$$

$$13) 16v^3 + 20v^2 + 20v + 25$$

$$14) 10x^3 + 4x^2 + 5x + 2$$

$$15) 4k^3 + 4k^2 + 3k + 3$$

$$16) 9n^3 - 3n^2 + 15n - 5$$

$$17) 20n^3 + 5n^2 + 16n + 4$$

$$18) 10x^3 + 6x^2 + 25x + 15$$

$$19) 20b^3 + 16b^2 + 5b + 4$$

$$20) 3a^3 - 5a^2 + 3a - 5$$