

Factoring Polynomials

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Date _____ Block _____ Score _____

Factor the common factor out of each expression.

1) $30m^3p^4n^2 + 25m^2p^7 + 25m^2p^4 + 5mp^4$

2) $-72x^7yz^2 + 16x^5y + 32x^2yz^2 - 96x^2z$

3) $63xy^2z^3 - 28x^4yz + 84x^2y^3z - 42x^2yz^2$

4) $-27p^{10}q^5r^2 - 90p^5q^4r^6 - 36p^5q^4r^3 + 72p^5q^4r^2$

5) $6a^4 + 30b^3 + 36b^2$

6) $14y + 10x + 18$

7) $28b^7 - 4b^2 + 4a$

8) $-8y^2 + 48x - 72$

9) $-20k^4 - 10k^2 + 15k - 15$

10) $25m^7 + 15m^5 - 10m^4 + 10m^2$

11) $15n^5 - 9n^3 + 9n^2 + 12n$

12) $2x^5 + 5x^4 - 3x^3 + 3x^2$

$$13) 10x^5 - 10x^4 + 25x^3 - 5x^2$$

$$14) -20a^{11} - 4a^8 + 20a^7 + 20a^6$$

$$15) 15x^2 + 6x - 12$$

$$16) 20b^3 + 5b - 10$$

$$17) 16n^7 + 16n^4 + 12n^2$$

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

$$19) -6 + 10v + 10v^2$$

$$20) -20n + 10n^2 - 25n^3$$

$$21) -5k^2 + 20k$$

$$22) 8x + 4$$

$$23) 5r + 5$$

$$24) n^7 + 2n$$

$$25) 20m^4 + 4m^2$$

$$26) -4p^3 - 4p^2$$