Name: _____ Date: _____

MATH MONKS

# Dividing Polynomials by Monomials

Divide.

[1] $(-10k^6 + 5k^5 - 15k) \div 5k$

[2] $(-8p^{11} - p^{10}) \div (-p^7)$

[3] $(-4x^7 + 6x^6 - 10x^5 - 2x^4) \div 2x^3$

[4] $(v^8 - 5v^6 + v^5) \div v$

[5] $(88y^5 + 96y^2) \div 8$

[6] $(72b^5 + 81b^2 + 9) \div 9$

[7] $(33k^7 + 99k^3) \div 33k^2$

[8] $(78m^2n - 26mn^2) \div 13mn$

[9] $(84h^4 + 14h^3 + 21) \div (7h^0)$

[10] $(x^{12} + x^7) \div x^2$

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# Dividing Polynomials by Monomials

Answers

[1] $(-10k^6 + 5k^5 - 15k) \div 5k$

$-2k^5 + k^4 - 3$

[2] $(-8p^{11} - p^{10}) \div (-p^7)$

$8p^4 + p^3$

[3] $(-4x^7 + 6x^6 - 10x^5 - 2x^4) \div 2x^3$

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

[4] $(v^8 - 5v^6 + v^5) \div v$

$v^7 - 5v^5 + v^4$

[5] $(88y^5 + 96y^2) \div 8$

$11y^5 + 12y^2$

[6] $(72b^5 + 81b^2 + 9) \div 9$

$8b^5 + 9b^2 + 1$

[7] $(33k^7 + 99k^3) \div 33k^2$

$k^5 + 3k$

[8] $(78m^2n - 26mn^2) \div 13mn$

$6m - 2n$

[9] $(84h^4 + 14h^3 + 21) \div (7h^0)$

$12h^4 + 2h^3 + 3$

[10] $(x^{12} + x^7) \div x^2$

$x^{10} + x^5$