

Name : _____

Dividing Polynomials

Sheet 3

Divide the following.

1) $(q^3r^4s^9 - qr^3) \div qr^2$

2) $(20m^6n + 8m^5n - 16m^7n^3) \div 4m^3n$

3) $(g^7h^8 - 2g^4h^6 + g^5h^7) \div g$

$a^3bc - 14ab^3c) \div abc$

5) $(9p^9q^2 + 15p^3q) \div 3$

$y^4z^3) \div x^2y$

7) $(4r^7s^2t + 12r^5s^4t^2 - 6r^8s^2 + 10r^6s^3t) \div (-2r^5s^2)$

8) $14u^9v^4w^7 \div 7u^5v^3w^2$

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Answer key

Dividing Polynomials

Sheet 3

Divide the following.

1) $(q^3r^4s^9 - qr^3) \div qr^2$

$q^2r^2s^9 - r$

2) $(20m^6n + 8m^5n - 16m^7n^3) \div 4m^3n$

$-4m^4n^2 + 5m^3 + 2m^2$

3) $(g^7h^8 - 2g^4h^6 + g^5h^7) \div g$

$g^3h^2 + gh - 2$

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$a^3bc - 14ab^3c) \div abc$

$2 - 14b^2$

5) $(9p^9q^2 + 15p^3q) \div 3$

$3p^9q^2 + 5p^3q$

$2y^4z^3) \div x^2y$

7) $(4r^7s^2t + 12r^5s^4t^2 - 6r^8s^2 + 10r^6s^3t) \div (-2r^5s^2)$

$-6s^2t^2 - 2r^2t + 3r^3 - 5rst$

8) $14u^9v^4w^7 \div 7u^5v^3w^2$

$2u^4vw^5$