

Name : _____

Dividing Polynomials

Sheet 1

Divide the following.

1) $18c^9d \div 9c^3$

2) $(p^5q^3 - 4p^4q^2 + 11pq) \div pq$

3) $(-7u^8v^4w + u^4vw^6 - 8u^5v^4w) \div u^4vw$

4) $(6x^6y^3z^4 + 2x^5y^2) \div 2x^3y^2$

5) $(20g^7h^8 - 10g^2) \div (-5g^2)$

6) $(-r^3s^4t + 19r^2s^3t + 13s^3t^2 + rs^4t^8) \div s^2t$

7) $(15a^4b + 3a^2b - 6a^2b^4 - 3a^2bc^2) \div 3a^2b$

8) $(12m^9n^5 - 16m^8n^6) \div 4m^7n^5$

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Answer key

Dividing Polynomials

Sheet 1

Divide the following.

1) $18c^9d \div 9c^3$

$2c^6d$

2) $(p^5q^3 - 4p^4q^2 + 11pq) \div pq$

$p^4q^2 - 4p^3q + 11$

3) $(-7u^8v^4w + u^4vw^6 - 8u^5v^4w) \div u^4vw$

$-7u^4v^3 + w^5 - 8uv^3$

4) $(6x^6y^3z^4 + 2x^5y^2) \div 2x^3y^2$

$3x^3yz^4 + x^2$

5) $(20g^7h^8 - 10g^2) \div (-5g^2)$

$-4g^5h^8 + 2$

6) $(-r^3s^4t + 19r^2s^3t + 13s^3t^2 + rs^4t^8) \div s^2t$

$rs^2t^7 - r^3s^2 + 19r^2s + 13st$

7) $(15a^4b + 3a^2b - 6a^2b^4 - 3a^2bc^2) \div 3a^2b$

$5a^2 - 2b^3 - c^2 + 1$

8) $(12m^9n^5 - 16m^8n^6) \div 4m^7n^5$

$3m^2 - 4mn$