Dividing Polynomials

Name _____

Score _____

DP:09

Divide the polynomials.

1) $(-18u^3v^6 - 6uv + 9u^4v^7) \div 3uv$

2) $(8w^9 + 4w^8 - 20w^6 - 8w^7) \div 4w^6$

3) $(4x^3y^7 - 2xy^8 - 6x^4y^4 + 8x^5y^8) \div 2xy^2$

4) $88b^5c^9d^7 \div -11b^2c^3d^4$

5) $15g^8h^6 \div 5g^3h^3$

6) $(p^3q^6r^9 + p^9q^6r^5 - p^6q^8r^4) \div p^2q^4r^3$

7) $(35k^8 + 14k^5) \div 7k^5$

8) $(3m^7n^7 - 27m^9n^8) \div 9m^3n^6$

Dividing Polynomials

Answer key

Name _____

Score _____

DP:09

Divide the polynomials.

1) $(-18u^3v^6 - 6uv + 9u^4v^7) \div 3uv$

$3u^3v^6 - 6u^2v^5 - 2$

2) $(8w^9 + 4w^8 - 20w^6 - 8w^7) \div 4w^6$

$2w^3 + w^2 - 2w - 5$

3) $(4x^3y^7 - 2xy^8 - 6x^4y^4 + 8x^5y^8) \div 2xy^2$

$4x^4y^6 + 2x^2y^5 - y^6 - 3x^3y^2$

4) $88b^5c^9d^7 \div -11b^2c^3d^4$

$-8b^3c^6d^3$

5) $15g^8h^6 \div 5g^3h^3$

$3g^5h^3$

6) $(p^3q^6r^9 + p^9q^6r^5 - p^6q^8r^4) \div p^2q^4r^3$

$p^7q^2r^2 + pq^2r^6 - p^4q^4r$

7) $(35k^8 + 14k^5) \div 7k^5$

$5k^3 + 2$

8) $(3m^7n^7 - 27m^9n^8) \div 9m^3n^6$

$-3m^6n^2 + \frac{1}{3}m^4n$