Dividing Polynomials

Divide the polynomials.

1) $7p^5q^8r^7 \div 28p^2qr^4$

2) $(8a^6 + 6a^9) \div 2a^5$

3) $(-16z^5 - 24z^8 + 8z^9 - 32z^6) \div 8z^4$

4) $(5x^4y^6 + 6x^2y^8 - 9x^6y^6) \div 3x^2y^3$

5) $(b^5c^9d^4 - b^4c^3d^7 + b^3c^8d^9) \div b^2c^3d^4$

6) $20u^7v^5w^3 \div 10u^4v^4w^2$

7) $(63m^4n^5 - 36m^8n^7) \div 9m^3n^4$

8) $(4gh - 8g^4h^3 + 24g^3h^6) \div 4gh$

Divide the polynomials.

1) $7p^5q^8r^7 \div 28p^2qr^4$

$\dfrac{1}{4}\,p^3q^7r^3$

2) $(8a^6 + 6a^9) \div 2a^5$

$3a^4 + 4a$

3) $(-16z^5 - 24z^8 + 8z^9 - 32z^6) \div 8z^4$

$z^4 - 3z^3 - 4z^2 - 2z$

4) $(5x^4y^6 + 6x^2y^8 - 9x^6y^6) \div 3x^2y^3$

$-3x^4y^3 + \dfrac{5}{3}x^2y^3 + 2y^5$

5) $(b^5c^9d^4 - b^4c^3d^7 + b^3c^8d^9) \div b^2c^3d^4$

$bc^5d^5 + b^3c^6 - b^2d^3$

6) $20u^7v^5w^3 \div 10u^4v^4w^2$

$2u^3vw$

7) $(63m^4n^5 - 36m^8n^7) \div 9m^3n^4$

$-4m^5n^3 + 7mn$

8) $(4gh - 8g^4h^3 + 24g^3h^6) \div 4gh$

$6g^2h^5 - 2g^3h^2 + 4$