

Name:

Date:

Score:

Greatest Common Factor - Polynomials

Factor out the GCF from each expression

1 $12y^3 - 15y^2 + 6y$

2 $21a^3 + 21a^2 + 14a$

3 $9v^6 - 63v^3 - 90v^2$

4 $63p^6 - 49p^5 - 21p$

5 $10x^7 - 5x^6 + 10x^5$

6 $18x - 6xy^2 + 10xy^9$

7 $24xy^5 - 80x^3y^3 + 64x^2y$

8 $-24z^4 - 18z + 36$

9 $-28x - 8x^4 - 16x^{10}$

10 $20y^4 - 15y^3 + 30y^2$

Name:

Date:

Score:

Greatest Common Factor - Polynomials

Answers

1 $12y^3 - 15y^2 + 6y$

$3y(4y^2 - 5y + 2)$

2 $21a^3 + 21a^2 + 14a$

$7a(3a^2 + 3a + 2)$

3 $9v^6 - 63v^3 - 90v^2$

$9v^2(v^4 - 7v - 10)$

4 $63p^6 - 49p^5 - 21p$

$7p(9p^5 - 7p^4 - 3)$

5 $10x^7 - 5x^6 + 10x^5$

$5x^5(2x^2 - x + 2)$

6 $18x - 6xy^2 + 10xy^9$

$2x(5y^9 - 3y^2 + 9)$

7 $24xy^5 - 80x^3y^3 + 64x^2y$

$8xy(3y^4 - 10x^2y^2 + 8x)$

8 $-24z^4 - 18z + 36$

$6(-4z^4 - 3z + 6)$

9 $-28x - 8x^4 - 16x^{10}$

$-4x(4x^9 + 2x^3 + 7)$

10 $20y^4 - 15y^3 + 30y^2$

$5y^2(4y^2 - 3y + 6)$