

Multivariable Polynomials Worksheet Answer Key

Even More Unsavory Characters

Identify whether the expression is a multivariable polynomial function. If it is, identify the degree.

1. $a^2 + ab^4 + \frac{a}{b}$

No

6. $3x^{20}y^{10} - 2x^4y^2$

Yes; degree = 30

2. $xy + xy^2 + x^2y$

Yes; degree = 3

7. $11w^5z^6 + 22w^4z^5 + 13w^3z^3$

Yes; degree = 11

3. $yz^2 - \frac{z}{y^2}$

No

8. $4x^9y^2 + 3x^8y^4 + 5x^4y^4$

Yes; degree = 12

4. $uv^2 + 2^uv + 1$

No

9. $9u^4v^3 + 9u^3v^4$

Yes; degree = 7

5. $3l^2m + 3l^3 + 2l^2m^2$

Yes; degree = 4

10. $z + \frac{2}{z}$

No

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