Identifying Polynomials Worksheet Answer Key

From a Lineup with Other Unsavory Characters

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

1. 0

   Yes; constant polynomial

2. $y + 4$

   Yes; monomial

3. $\frac{1}{y}$

   Not a polynomial

4. $3x^2 + 2$

   Yes; binomial

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

   Not a polynomial

6. $\frac{8}{3}x^{9/3}$

   Yes; trinomial

7. $\frac{1}{2x^3} + 2x^3$

   Not a polynomial

8. $2 + \frac{5^x}{5}$

   Not a polynomial

9. $4x^8 + \pi x^2 + 1$.

   Yes; octonomial

10. $7x^2 + 3\sqrt{x} + 4$

    Not a polynomial
