Name	Date	Class
radino _	 	Viass

Challenge

5 Pick the Polynomial

Match each polynomial with the correct clue. Each polynomial can be used only once. Not every polynomial will be used.

Use these polynomials for 1-7.

$x^5 + x^3 + x$	$2x^4y^4 + 3x^2y^5$
2 <i>x</i> ⁴	$x^5 y - 3x^2 y + xy$
3x + 3y + 3z	-3xy ⁴
2 <i>xy</i> + 5 <i>xy</i>	$2x^2y+5xy^2$
$4x^2 - 3x^5 + x$	$4xyz^2 + xyz$

- 1. I am a monomial with degree 5. Who am I?
- 2. I am a sum of monomials with degree 8. Who am I?
- 3. I am a trinomial with degree 5. Who am I?
- 4. I am a binomial. Both of my terms have degree 2. Who am I?
- 5. I am a monomial with degree 4. Who am I?
- 6. I am a binomial with degree 4. Who am I?
- 7. I am a trinomial. When you put me in standard form, my leading coefficient is -3. Who am I?

Use these polynomials for 8 - 14.

$4xy + 3x^2 y$	$x^3 + x^2 + x$
$x^2 + x - 3$	$x^4 + x^3 + x^2$
$-3 + x + 4x^2$	$2x^2 - 3x^3 + 1$
$x^3 y - 3xyz + z$	x - 3
-x + 3	$x^2 + y^2 + z^2 + w^2$

- 8. I am a linear expression. My constant is -3. Who am I?
- 9. I am a quartic trinomial. I have three different variables. Who am I?
- 10. I am a cubic binomial. Who am I?
- 11. I am a quadratic polynomial. I have no constants. Who am I?
- **12.** I am a cubic trinomial with one variable. Who am I?
- 13. I am a quadratic trinomial. When you put me in standard form, my leading coefficient is 4. Who am !?
- 14. I am a quartic trinomial. Who am I?