

Name : \_\_\_\_\_

## Polynomials - Multiple Response

Sheet 4

1) Which of the following polynomials are expressed in standard form?

a)  $8p^2q^2r + pq^3 + 9qr + 7$

b)  $5b^3 - a^2 + 4$

c)  $-6xy - 2y + 4$

d)  $-m^4 + m^3 + m^7 + 8 - m$

e)  $-4r^2 - st^3$

f)  $n^4 - 6m^2n + 2mn - m$

2) Identify the algebraic expressions which are not polynomials.

a)  $2a^3 + 8c - 2bc$

b)  $m^6 - n^5 + mn$

c)  $u^5 - 6u^4 - u^2 + 8u^{-3} + 5$

d)  $qr - 9r$

$4z - 2$

3) Identify the like terms.

a)  $-5x^2y^3$

$4yz$

d)  $y^3$

$-9x^2y^3$

4) Which of the following

a)  $6x - x^3$

$5 - r^4s - 3s - 2r^3$

d)  $5v - w^4 - 9 + v$

$8a - 2b^4c - ab - b^3$

5) Which of the following

a)  $4rs - r^3 - s^4$

$-8u^3 + 6uv - v^2w - u^4$

d)  $12 + u^4 + uv + v^3$

e)  $a^2bc - 2a^{-2}c - 6a^3b^7c$

f)  $p - \sqrt{q} - r - 4pqr + 7$

6) Identify the polynomials which are not expressed in standard form.

a)  $-3d^4 + d^5 - d + d^3$

b)  $-6p + 4pr^2$

c)  $-4mn + 5m^3$

d)  $2z^3 - yz + y$

e)  $4rs - r^3 - r^4s$

f)  $y^3 - y^4$

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