

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

## Analyzing Polynomials

Sheet 2

Answer the following questions.

1)  $12abc - 2 - 5ab^3c - 8b^2c^2 - a + 9 - 4b^2c^2$

a) Identify the degree of the given polynomial. \_\_\_\_\_

b) Write down a pair of like terms for the given polynomial. \_\_\_\_\_

c) Evaluate the polynomial. \_\_\_\_\_

d) What is the coefficient of the given polynomial? \_\_\_\_\_

e) What is the leading coefficient of the given polynomial? \_\_\_\_\_

2)  $3x^2 + x^3 - 5x^2 + 8 + 2x$

a) Evaluate the polynomial. \_\_\_\_\_

b) What is the coefficient of the given polynomial? \_\_\_\_\_

c) Identify the degree of the given polynomial. \_\_\_\_\_

d) What is the leading coefficient of the given polynomial? \_\_\_\_\_

e) Write down a pair of like terms for the given polynomial. \_\_\_\_\_

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## Answer key

# Analyzing Polynomials

Sheet 2

Answer the following questions.

1)  $12abc - 2 - 5ab^3c - 8b^2c^2 - a + 9 - 4b^2c^2$

a) Identify the degree of the given polynomial.

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b) Write down a pair of like terms for the given polynomial.

$-8b^2c^2$  and  $-4b^2c^2$

c) Evaluate the polynomial.

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d) What is the coefficient of the given polynomial?

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e) What is the leading coefficient of the given polynomial?

-5

2)  $3x^2 + x^3 - 5x^2 + 8 + 2x$

a) Evaluate the polynomial.

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b) What is the coefficient of the given polynomial?

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c) Identify the degree of the given polynomial.

4

d) What is the leading coefficient of the given polynomial?

2

e) Write down a pair of like terms for the given polynomial.

$3x^2$  and  $-5x^2$