

Introducing Polynomials

Using Page 253 in your Text book complete the following

**blue**

Represents _____



Represents _____



Represents _____

**red**

Represents _____



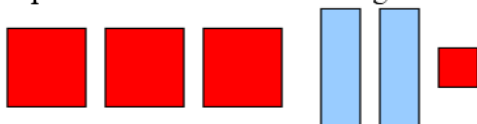
Represents _____



Represents _____

Use the **glossary** to define the term **expression** _____

1) What expression would the following collection represent?



Use the **Glossary** to find the following:

Term	Definition	Examples
Polynomial	_____	
Term	_____	
Coefficient	_____	
Variable term	_____	
Constant term	_____	

2) Rearrange the following polynomial into order of descending power.

a) $7x^2 + 8 - x + 3x^3$

b) $-2x^2 + x^4 - 3 - x$

There are three special types of polynomials.

Type of Polynomial	Number of terms	Examples
_____nomial		
_____nomial		
_____nomial		

3) Find the number of terms in each polynomial and identify the type.

a) $5k - 3$

b) $7m^3$

c) $10x^2 - 6x + 1$

d) $-7a^3 - 7a^2 + a + 1$

Term	Definition	Examples
Like Terms	_____	

Unlike Terms	_____	

4) Which pairs of terms represent like terms? Explain.

a) $2x, -5x$

b) $3, 4x$

c) $10, 2$

d) $2x^2, -3x^2$

e) $8x, -x$

f) $2x^3, 4x^2$

5) Simplify by collecting Like Terms

a) $3x + 2x + 2 - 3$

b) $2x^2 - x + 2 - 3x^2 + x + 3$

c) $4x + 8 - 2x + 4$

d) $2x^2 + 5x$

Pg 255 #1, 6, 7, 8, 9, 10

