Polynomial	Classify/type: Monomial, Binomial [1 term] [2 terms] or Trinomial? [3 terms]	Coefficient[s] (# in front of variable)	Degree (highest exponent)	Constant (just a number)
A. $-3x^3$	monomial	-3	3	none
B. $9r - 7$	binomial	9	1	-7
C. $-3y^2 - 4y + 6$	trinomial	$-3, -4$	2	6

*** The sign in front of the term goes with the coefficient or constant ***

Polynomial	# of Terms	Classify Type (monomial, binomial, trinomial)	just a # Constant	highest exponent Degree	# in front variable Coefficient
A. -4	1	monomial	-4	none	none
B. $-2x^4+3$	2	binomial	3	1	-2
C. $2x-3+4x^2$	3	trinomial	-3	2	2, 4
D. $-6x^1$	1	monomial	none	1	-6

Algebra Tiles Legend

Textbook
yellow → positive
red → negative

Unshaded Positive

1 constant

x degree 1

x^2 degree of 2

Shaded negative

1

-x

$-x^2$

Using algebra tiles model...

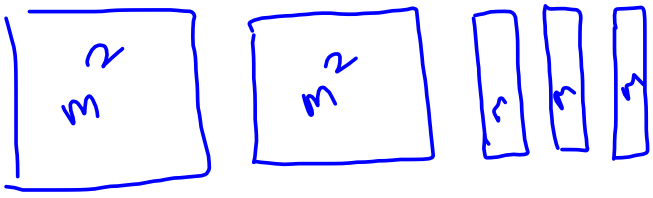
$2m^2 + 3m$

Classify polynomial

binomial

Degree

2



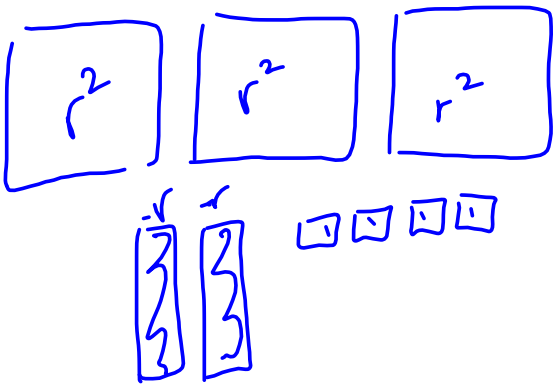
$3r^2 - 2r + 4$

Classify polynomial

trinomial

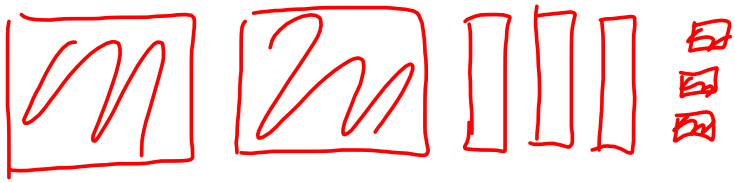
Degree

2



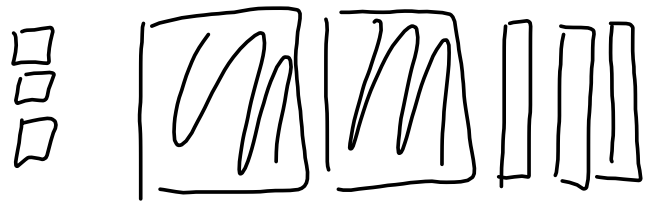
Model

$$-2x^2 + 3x - 3$$

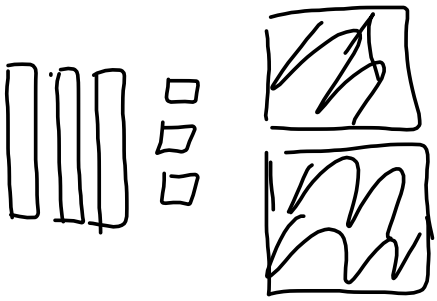


Does order Matter ? Show using algebra tiles.

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



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



* Rewrite from highest to lowest degree *

$-2x^2 + 3x + 3$

How are polynomials written???

A ***polynomial*** is usually written in ***descending*** order by degree!

Highest → lowest

Write in descending order:

$-2x^3+4x-6x^2+4$

$-2x^3-6x^2+4x+4$

$$2x^2 - x + 7$$

1. Identify the following:

a. constant

b. variable[s]

c. type

d. coefficient[s]

e. degree

2. Model using algebra tiles

Which is not a polynomial

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#4. a) $2+3n \rightarrow$ yes

4, 5, 6 [chart], 7....copy the question then answer

8 ...rearrange in descending order first

9 [use a chart]

11

12 write the polynomial then draw matching algebra tiles

13 a,c,e

Page 501-502 Answers!