

Pattern and Relations 5

Name: _____

Use the following information to answer question 19.

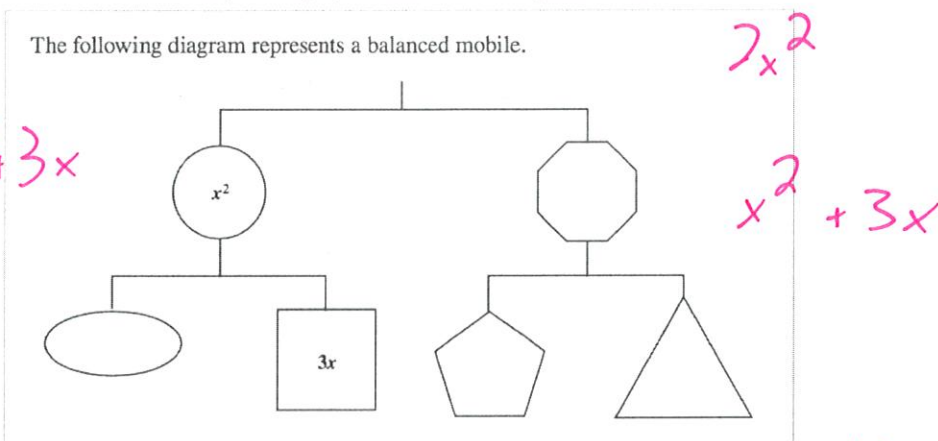
$$3x^2 - 4$$

Degree \rightarrow 2
 Coefficient \rightarrow 3
 Constant term \rightarrow -4

19. Which row correctly shows the degree, the coefficient, and the constant term in the expression shown above?

Row	Degree	Coefficient	Constant Term
A.	2	3	-4
B.	3	2	4
C.	2	-4	3
D.	3	4	2

Use the following information to answer question 23.



23. The sum of all parts of the mobile is

- A. $2x^2 + 12x$ *yes*
 B. $2x^2 + 9x$ *no*
 C. $x^2 + 6x$ *no*
 D. $x^2 + 3x$ *no*
 (not even)

the answer must be divisible by 2

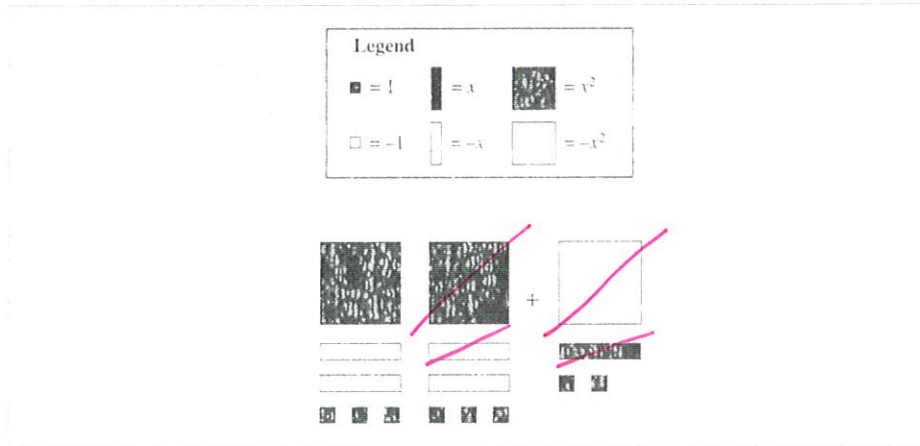
6. Which of the following expressions is equivalent to $-(3x - 2)$?

- A. $-3x + 2$
 B. $-3x - 2$
 C. $3x + 2$
 D. $3x - 2$

$-3x + 2$

19. Which pair of expressions below are equivalent for all values of x ?

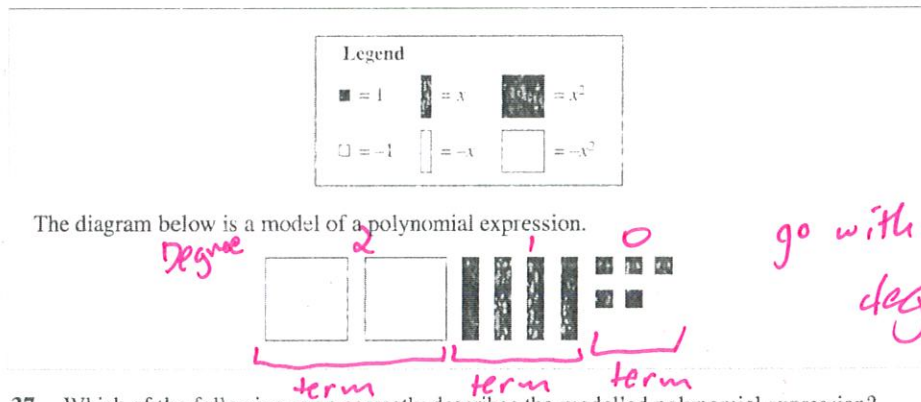
- A. $-3x + 4x^2 + 2$ and $4x^2 - 2 - 3x$ *no*
 B. $-3x + 4x^2 + 2$ and $2 - 3x + 4x^2$ *yes*
 C. $2 - 4x^2 + 3x$ and $-4x^2 + 3x - 2$ *no*
 D. $2 - 4x^2 + 3x$ and $-3x + 4x^2 + 2$



7. Which of the following expressions represents the solution to the model shown above?

- A. $x^2 - 3x + 8$
 - B. $x^2 + 3x - 8$
 - C. $-x^2 - 5x + 8$
 - D. $-x^2 + 5x - 8$
- $x^2 - 3x + 8$

Use the following information to answer question 37.



The diagram below is a model of a polynomial expression.

Degree 2 Degree 1 Degree 0

go with highest degree

term term term

37. Which of the following rows correctly describes the modelled polynomial expression?

	Number of Terms	Degree
A.	2	2
B.	2	4
C.	3	2
D.	3	4