

A.REI.B.3: Expressions

- 1 An example of an algebraic expression is
- 1) $6x - 2y \geq 4$
 - 2) $3x + 2y < -10$
 - 3) $(x - 4)(x - 1) = 6$
 - 4) $3x^2 - 10x - 3$
- 2 An example of an algebraic expression is
- 1) $\frac{2x + 3}{7} = \frac{13}{x}$
 - 2) $(2x + 1)(x - 7)$
 - 3) $4x - 1 = 4$
 - 4) $x = 2$
- 3 An example of an algebraic expression is
- 1) $x + 2$
 - 2) $y = x + 2$
 - 3) $y < x + 2$
 - 4) $y = x^2 + 2x$
- 4 An example of an algebraic expression is
- 1) $y = mx + b$
 - 2) $3x + 4y - 7$
 - 3) $2x + 3y \leq 18$
 - 4) $(x + y)(x - y) = 25$
- 5 Four students are playing a math game at home. One of the math game questions asked them to write an algebraic equation.
- Brandon wrote: $3(5x - 0)$
William wrote: $7 < 2(6 + x)$
Alice wrote: $15x$
Kayla wrote: $11 = 2x + 3$

Which student wrote an algebraic equation?

- 1) Brandon
- 2) William
- 3) Alice
- 4) Kayla

- 6 Mr. Stanton asked his students to write an algebraic expression on a piece of paper. He chose four students to go to the board and write their expression.

Robert wrote: $4(2x + 5) \geq 17$

Meredith wrote: $3y - 7 + 11z$

Steven wrote: $9w + 2 = 20$

Cynthia wrote: $8 + 10 - 4 = 14$

Which student wrote an algebraic expression?

- 1) Robert
 - 2) Meredith
 - 3) Steven
 - 4) Cynthia
- 7 An example of an equation is
- 1) $2x^2 - 4x + 12$
 - 2) $|x - 6|$
 - 3) $4(x + 6)(x - 2)$
 - 4) $2x = x^2 + 3$
- 8 An example of an algebraic equation is
- 1) $r^2 + 1$
 - 2) $2a + (n - 1)d$
 - 3) $5x = 7$
 - 4) $-25\pi + 100$
- 9 Chad complained to his friend that he had five equations to solve for homework. Are all of the homework problems equations? Justify your answer.

Math Homework	
1.	$3x^2 \cdot 2x^4$
2.	$5 - 2x = 3x$
3.	$3(2x + 7)$
4.	$7x^2 + 2x - 3x^2 - 9$
5.	$\frac{2}{3} = \frac{x+2}{6}$
Name <u>Chad</u>	

**A.REI.B.3: Expressions
Answer Section**

1 ANS: 4 REF: 061618ia

2 ANS: 2 REF: 011027ia

3 ANS: 1 REF: 081030ia

4 ANS: 2 REF: 061121ia

5 ANS: 4 REF: 011508ia

6 ANS: 2 REF: 011227ia

7 ANS: 4 REF: 011401ia

8 ANS: 3 REF: 061408ia

9 ANS:

Not all of the homework problems are equations. The first problem is an expression.

REF: 080931ia