

A.A.3: Expressions: Distinguish the difference between an algebraic expression and an algebraic equation

- 1 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) $x=2$

- 2 An example of an algebraic expression is

- 1) $x+2$
- 2) $y=x+2$
- 3) $y<x+2$
- 4) $y=x^2+2x$

- 3 An example of an algebraic expression is

- 1) $y=mx+b$
- 2) $3x+4y-7$
- 3) $2x+3y\leq 18$
- 4) $(x+y)(x-y)=25$

- 4 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

- 5 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

- 6 An example of an equation is

- 1) $2x^2-4x+12$
- 2) $|x-6|$
- 3) $4(x+6)(x-2)$
- 4) $2x=x^2+3$

- 7 An example of an algebraic equation is

- 1) r^2+1
- 2) $2a+(n-1)d$
- 3) $5x=7$
- 4) $-25\pi+100$

- 8 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.A.3: Expressions: Distinguish the difference between an algebraic expression and an algebraic equation**Answer Section**

1 ANS: 2 REF: 011027ia

2 ANS: 1 REF: 081030ia

3 ANS: 2 REF: 061121ia

4 ANS: 4 REF: 011508ia

5 ANS: 2 REF: 011227ia

6 ANS: 4 REF: 011401ia

7 ANS: 3 REF: 061408ia

8 ANS:

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

REF: 080931ia