Exam 2

|  |  |  |  |
| --- | --- | --- | --- |
| When Spheres-R-Us ships bags of golf balls, the number of balls in each bag must be within 6 balls of 300. Write a compound inequality and an absolute value inequality for an acceptable number of golf balls ***b*** in each bag.

|  |
| --- |
|  |

*

A. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image060.jpg; https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image061.jpg*

B. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image062.jpg; https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image061.jpg*

C. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image062.jpg; https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image063.jpg*

D. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image060.jpg; https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image063.jpg

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 2 of 205.0/ 5.0 PointsTo which set of numbers does the number below belong?https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image002.jpg

|  |
| --- |
|  |

*

A. natural numbers*

B. rational numbers*

C. integers*

D. irrational numbers

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 3 of 200.0/ 5.0 PointsSolve the inequality. Graph the solution.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image046.jpg

|  |
| --- |
|  |

*

A. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image047.jpg< x < https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image048.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image049.jpg*

B. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image050.jpg< x < https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image051.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image052.jpg*

C. x < https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image050.jpg  or x > https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image051.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image053.jpg*

D. x < https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image047.jpg or x > https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image048.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image054.jpg

|  |
| --- |
| Feedback:Please refer to: Lesson 1-6, pp. 41-46, Example Problem 4, Problems 25-30 |
|  |

 |
| Question 4 of 200.0/ 5.0 PointsWhat inequality represents the sentence below?The product of a number and 5 is no more than 8.

|  |
| --- |
|  |

*

A. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image027.jpg  *

B. 5*n* < 8*

C. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image028.jpg*

D. 5*n* > 8

|  |
| --- |
| Feedback:Please refer to: Lesson 1-5, pp. 33-37, Example Problem 1, Problems 10-13 |
|  |

 |
| Question 5 of 205.0/ 5.0 PointsEvaluate the expression for the given value of the variable(s).5*a* + 5*b*; *a* = -6, *b* = -5

|  |
| --- |
|  |

*

A. -55*

B. 55*

C. 5*

D. -5

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 6 of 205.0/ 5.0 PointsInsert <, >, or = to make the sentence true.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image008.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image009.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image010.jpg

|  |
| --- |
|  |

*

A. =*

B. <*

C. >

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 7 of 205.0/ 5.0 PointsCombine like terms. What is a simpler form of the expression?-3(-4*y* + 3) + 7*y*

|  |
| --- |
|  |

*

A. 19*y* - 9*

B. 10*y**

C. -19*y* + 3*

D. -19*y* - 9

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 8 of 200.0/ 5.0 Points**So** **lve the inequality. Graph the solution set.** 26 + 6b https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/greaterthanequality.png 2(3b + 4)

|  |
| --- |
|  |

*

A. all real numbershttps://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image036.jpg*

B. b https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/greaterthanequality.png1 1/2https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image032.jpg*

C. no solutionshttps://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image037.jpg

|  |
| --- |
| Feedback:Please refer to: Lesson 1-5, pp. 33-37, Example Problem 2, Problems 14-23 |
|  |

 |
| Question 9 of 200.0/ 5.0 PointsName the property of real numbers illustrated by the equation.-4(*x* + 3) = -4*x*- 12

|  |
| --- |
|  |

*

A. Commutative Property of Addition*

B. Associative Property of Addition*

C. Associative Property of Multiplication*

D. Distributive Property

|  |
| --- |
| Feedback:Please refer to: Lesson 1-2, pp. 11-14, Example Problem #4, Problems 35-40 |
|  |

 |
| Question 10 of 200.0/ 5.0 PointsInsert <, >, or = to make the sentence true.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image011.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image012.jpg

|  |
| --- |
|  |

*

A. <*

B. >*

C. =

|  |
| --- |
| Feedback:Please refer to: Lesson 1-2, pp. 11-14, Example Problem #3, Problems 23-34 |
|  |

 |
| Question 11 of 200.0/ 5.0 PointsSolve the problem by writing an inequality.If the perimeter of a rectangular picture frame must be less than 200 in., and the width is 36 in., what must the height *h* of the frame be?

|  |
| --- |
|  |

*

A. h < 64 in.*

B. h < 128 in.*

C. h > 64 in.*

D. h > 128 in.

|  |
| --- |
| Feedback:Please refer to: Lesson 1-5, pp. 33-37, Example Problem 3, Problems 24-27 |
|  |

 |
| Question 12 of 200.0/ 5.0 PointsEvaluate the expression for the given value of the variable(s).https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%201.1%20image%204.JPG

|  |
| --- |
|  |

*

A. 19*

B. 17*

C. -11*

D. 21

|  |
| --- |
| Feedback:Please refer to: Lesson 1-3, pp. 18-21, Example Problem 3, Problems 16-19 |
|  |

 |
| Question 13 of 200.0/ 5.0 PointsName the property of real numbers illustrated by the equation.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image014.jpg

|  |
| --- |
|  |

*

A. Associative Property of Multiplication*

B. Commutative Property of Multiplication*

C. Distributive Property*

D. Associative Property of Addition

|  |
| --- |
| Feedback:Please refer to: Lesson 1-2, pp. 11-14, Example Problem #4, Problems 35-40 |
|  |

 |
| Question 14 of 200.0/ 5.0 PointsName the property of real numbers illustrated by the equation.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%201.1%20image%201.JPG

|  |
| --- |
|  |

*

A. Closure Property*

B. Commutative Property of Multiplication*

C. Commutative Property of Addition*

D. Associative Property of Addition

|  |
| --- |
| Feedback:Please refer to: Lesson 1-2, pp. 11-14, Example Problem 4, Problems 35-40 |
|  |

 |
| Question 15 of 205.0/ 5.0 PointsGraph the number below on a number line.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image003.jpg

|  |
| --- |
|  |

*

A. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image006.jpg*

B. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image007.jpg*

C. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image005.jpg*

D. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image004.jpg

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 16 of 205.0/ 5.0 PointsWhat is the **sum** of the solutions of https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image039.jpg?

|  |
| --- |
|  |

*

A. 2*

B. 1 1/2*

C. -2*

D. 0

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 17 of 205.0/ 5.0 PointsSolve the equation. Check for extraneous solutions.https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image042.jpg

|  |
| --- |
|  |

*

A. x = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image043.jpgor x = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image044.jpg*

B. x =https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image043.jpg or x = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image045.jpg*

C. x = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image045.jpg*

D. x = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image043.jpg

|  |
| --- |
| Feedback:Great job! |
|  |

 |
| Question 18 of 200.0/ 5.0 PointsEvaluate the expression for the given value of the variable(s).https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%201.1%20image%203.JPG

|  |
| --- |
|  |

*

A. 32*

B. 48*

C. -48*

D. 30

|  |
| --- |
| Feedback:Please refer to: Lesson 1-3, pp. 18-21, Example Problem 3, Problems 16-19 |
|  |

 |
| Question 19 of 200.0/ 5.0 PointsA furniture maker uses the specification https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image055.jpg for the width w in inches of a desk drawer.Write the specification as an absolute value inequality.

|  |
| --- |
|  |

*

A. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image056.jpg*

B. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image057.jpg*

C. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image058.jpg*

D. https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image059.jpg

|  |
| --- |
| Feedback:Please refer to: Lesson 1-6, pp. 41-46, Example Problem 6, Problems 37-42 |
|  |

 |
| Question 20 of 200.0/ 5.0 Points**Solve the inequality. Graph the solution set.**2*r* – 9 https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/greaterthanequality.png – 6

|  |
| --- |
|  |

*

A. r https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/lessthanequalto.png https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image030.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image031.jpg*

B. r https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/greaterthanequality.png https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image033.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image034.jpg  *

C. r https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/greaterthanequality.png https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image030.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image032.jpg *

D. r https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/lessthanequalto.png https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image033.jpg https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image035.jpg |