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 20  5.0/ 5.0 Points  To 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 20  0.0/ 5.0 Points  Solve 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 20  0.0/ 5.0 Points  What 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 20  5.0/ 5.0 Points  Evaluate 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 20  5.0/ 5.0 Points  Insert <, >, 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 20  5.0/ 5.0 Points  Combine 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 20  0.0/ 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 numbers https://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 1/2 https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_1_files/image032.jpg      C.  no solutions https://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 20  0.0/ 5.0 Points  Name 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 20  0.0/ 5.0 Points  Insert <, >, 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 20  0.0/ 5.0 Points  Solve 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 20  0.0/ 5.0 Points  Evaluate 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 20  0.0/ 5.0 Points  Name 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 20  0.0/ 5.0 Points  Name 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 20  5.0/ 5.0 Points  Graph 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 20  5.0/ 5.0 Points  What 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 20  5.0/ 5.0 Points  Solve 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 20  0.0/ 5.0 Points  Evaluate 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 20  0.0/ 5.0 Points  A 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 20  0.0/ 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 |