Exam 6

|  |  |
| --- | --- |
| What is the inverse of the given function? y = 3x + 9     |  | | --- | |  |   A. y= 3x­-3      B.  y=3x+3      C. y = 1/3x + 3      D.  y=1/3x­-3 |
| Question 2 of 20  0.0/ 5.0 Points  Is relation *t*a function?  Is the inverse of relations*t* a function?  Relation *t*   |  |  |  |  |  | | --- | --- | --- | --- | --- | | ***x*** | 0 | 1 | 2 | 3 | | ***﻿﻿y*** | -2 | 1 | 10 | 2 |      |  | | --- | |  |   A.  Relation*t* is not a function.  The inverse of relation *t*is not a function.      B.  Relation *t* is not a function.  The inverse of relation *t* is not a function.      C.  Relation *t* is not a function.  The inverse of relation *t* is a function.      D.  Relation *t* is a function.  The inverse of relation*t* is a function. |
| Question 3 of 20  0.0/ 5.0 Points  What is the inverse of the given relation?  *y* = 4*x* - 8   |  | | --- | |  |   A.  *y* = 4*x* - 2      B.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%206.1%20image%202.JPG      C.  *y* = 4*x*+ 2      D.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%206.1%20image%203.JPG |
| Question 4 of 20  0.0/ 5.0 Points  Let f(x) = -5x - 4 and g(x) = 6x - 7. Find f(x) + g(x)   |  | | --- | |  |   A. -11x = 3b      B. x - 11      C. x + 3      D. -11x - 11     |  | | --- | | Feedback:Please refer to:  Lesson 6-6. Example 1 | |  | |
| Question 5 of 20  0.0/ 5.0 Points  Let f(x) = x2 + 6 and https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2017.JPG . Find ( g o f)(­ -7)   |  | | --- | |  |   A.  63  55      B.  -57    7      C.  384    7      D.  295   49 |
| Question 6 of 20  0.0/ 5.0 Points  A store is offering a 25% discount on all items.  Also, employees get a 10% employee discount.  If you are an employee which discount would you want to be applied first to save the most money?     |  | | --- | |  |   A.  25%      B. 10%       C. It doesn’t matter which discount is applied first, the result is the same.      D.  Not enough information is given |
| Question 7 of 20  0.0/ 5.0 Points  Graph y = -­4x2 ­- 2 and its inverse.     |  | | --- | |  |   A.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_6_files/new%20images/14.c.jpg      B.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_6_files/new%20images/14.d.jpg      C.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_6_files/new%20images/14.b.jpg      D.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Algebra2_Exam_6_files/new%20images/14.a.jpg |
| Question 8 of 20  0.0/ 5.0 Points  Let f(x) = -­2x ­- 7 and g(x) = ­-4x + 3. Find (f o g)(-­5)     |  | | --- | |  |   A.  -9      B.  23      C.  3      D.  -53 |
| Question 9 of 20  0.0/ 5.0 Points  Let f(x) = 3x ­- 6 and g(x) = x ­- 2. Find https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%206.JPG and its domain   |  | | --- | |  |   A.  3; all real numbers except x = 2      B.   3; all real numbers      C.  ­3; all real numbers except x = 3      D. 1; all real numbers |
| Question 10 of 20  0.0/ 5.0 Points  For the function f(x) = x + 9, find (f o f-1)(5)   |  | | --- | |  |   A. 5      B. 25      C. 14      D. -5 |
| Question 11 of 20  0.0/ 5.0 Points  What is the inverse of the given function? y = 7x2 -­ 3.   |  | | --- | |  |   A.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2010.JPG      B.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%207.JPG      C.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%208.JPG      D.  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%209.JPG |
| Question 12 of 20  0.0/ 5.0 Points  Let *f(x*) = -3*x* - 4 and *g*(*x*) = 2*x*- 6. Find https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Additional%20Exam%20Question%20Images/Exam%206.1%20image%201.JPG   |  | | --- | |  |   A. 28      B. -20      C. 17      D. 56 |
| Question 13 of 20  0.0/ 5.0 Points  f(x) = x2 -­ 16 and g(x) = x+4. Find https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%206.JPG and its domain   |  | | --- | |  |   A.  x ­- 4; all real numbers except x ≠ -4      B.  x -­ 4; all real numbers except x ≠ 4      C.  x + 4; all real numbers except x ≠ 4      D.  x +­ 4; all real numbers except x ≠ 4 |
| Question 14 of 20  0.0/ 5.0 Points  For the function f(x) = (8-­2x)2 ,find f-­1 . Determine whether f­-1 is a function.     |  | | --- | |  |   A.   f­-1(x) = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2013.JPG; f­-1 is not a function      B.   f­-1(x) = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2015.JPG;f­-1 is not a function      C.   f­-1(x) = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2014.JPG;f­-1 is a function      D.   f­-1(x) = https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2012.JPG;f­-1 is a function |
| Question 15 of 20  0.0/ 5.0 Points  Let f(x) = x + 2 and g(x) = x2 Find ( g o f)(-­5)     |  | | --- | |  |   A.  9      B. -10      C.  -3      D.  49 |
| Question 16 of 20  0.0/ 5.0 Points  https://study.ashworthcollege.edu/access/content/group/59841a3a-ae83-40e0-9ad2-cdbb53b336a0/Algebra%20II%20Part%201/Revision%20B/Exam%20Images/Algebra%20II%20Part%20I%20Exam%20Image%2016.JPG find f-1   |  | | --- | |  |   A.  f­-1 (x) = x2 +25; y> 5      B.   f­-1 (x) = x2 +25; y> 25      C.  f ­-1 (x) = (x + 5)2; y  > 5      D.   f ­-1 (x) = x2 + 5; y >  5 |
| Question 17 of 20  0.0/ 5.0 Points  Let f(x) = 4x - 5 and g(x) = 6x - 3. Find f(x) - g(x).   |  | | --- | |  |   A. -2x - 8      B. -2x - 2      C. 2x + 5      D. 2x - 5     |  | | --- | | Feedback:Please refer to:  Lesson 6-6. Example 1 | |  | |
| Question 18 of 20  5.0/ 5.0 Points  Let f(x) = 3x + 2 and g(x) =7x + 6. Find f ·g and its domain.   |  | | --- | |  |   A.  21x2 +32x + 12; all real numbers except x = -6/7      B.   21x2 + 32x + 12; all real numbers        C.   6x2 + 4x + 42; all real numbers        D.  6x2 + 4x + 42; all real numbers except x = ­2/3       |  | | --- | | Feedback:Great job! | |  | |
| Question 19 of 20  5.0/ 5.0 Points  For the function f(x) = x2 ­ -12, find (f o f­-1)(4)   |  | | --- | |  |   A. 0      B. 4      C. 10      D. 6 |
| Question 20 of 20  0.0/ 5.0 Points  Is relation t a function?  Is the inverse of relations t a function?  Relation t   |  |  |  |  |  | | --- | --- | --- | --- | --- | | x | 0 | 2 | 4 | 6 | | y | -8 | -7 | -4 | -4 |      |  | | --- | |  |   A.   Relation t is a function. The inverse of relation t is not a functions      B.  Relation t is not a function.  The inverse of relation t is not a function.        C.  Relation t is a function. The inverse of relation t is a function.      D. Relation t is not a function. The inverse of relation t is a function |