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Gateway Quiz Unit 17,v2

Your score on this (checked, not recorded) submission is 1.67/3.

The recorded score for this test is 1.67/3.

Time taken on test: 11.57 min (90 min allowed).

The test (which is number 2) may no longer be submitted for a grade. You may still check your answers.

Print Test (/webwork2/MATH_121_Unit_17_to_20/hardcopy/Unit_17,v2/? user=20cjbs&effectiveUser=20cjbs&key=VuM8LHmeifez0VttPD8S83LcFJaALQHb)

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- Show correct answers
- Show Solutions

Preview Test

Check Test

Problem 1. ANSWERS ONLY CHECKED -- ANSWERS NOT RECORDED

(1 point) The temperature adjusted for wind-chill, w, is a temperature which tells you how cold it feels, as a result of the combination of wind and temperature [see wind-chill (http://www.nws.noaa.gov/om/windchill/)]. See the table below, which gives temperature adjusted for wind-chill, w, as a function of temperature T and wind speed s.

	T = 35	T = 30	T=25	T = 20	T = 15	T = 10	T = 5	T = 0
s = 5	31	25	19	13	7	1	-5	-11
s = 10	27	21	15	9	3	-4	-10	-16
s = 15	25	19	13	6	0	-7	-13	-19
s = 20	24	17	11	4	-2	-9	-15	-22
s=25	23	16	9	3	-4	-11	-17	-24

Use this table to make tables of the temperature adjusted for wind-chill (w) as a function of temperature for wind speeds 10 and 25 mph:

s = 10:

independent variable =	35	30	25	20	15	10	5	0
-								

dependent variable =	27	21	15	9	3	-4	-10	-16

s = 25:

independent variable = T =	35	30	25	20	15	10	5	0
dependent variable = W =	23	16	9	3	-4	-11	-17	-24

Solution:

Note: You can earn partial credit on this problem.

preview answers

Entored	Answer Preview	Correct	Result	Magagga
Entered	Answer Preview	Correct	Result	Messages
Т	T	Т	incorrect	
35	35	35	incorrect	
30	30	30	incorrect	
25	25	25	incorrect	
20	20	20	incorrect	
15	15	15	incorrect	
10	10	10	incorrect	
5	5	5	incorrect	
0	0	0	incorrect	
W		W	incorrect	Variable 'W' is not defined in this context
27	27	27	incorrect	
21	21	21	incorrect	
15	15	15	incorrect	

9	9	9	incorrect	
3	3	3	incorrect	
-4	-4	-4	incorrect	
-10	-10	-10	incorrect	
-16	-16	-16	incorrect	
Т	T	Т	incorrect	
35	35	35	incorrect	
30	30	30	incorrect	
25	25	25	incorrect	
20	20	20	incorrect	
15	15	15	incorrect	
10	10	10	incorrect	
5	5	5	incorrect	
0	0	0	incorrect	
W		w	incorrect	Variable 'W' is not defined in this context
23	23	23	incorrect	
16	16	16	incorrect	
9	9	9	incorrect	
3	3	3	incorrect	
-4	-4	-4	incorrect	

-11	-11	-11	incorrect	
-17	-17	-17	incorrect	
-24	-24	-24	incorrect	

At least one of these answers is NOT correct.

Problem 2. ANSWERS ONLY CHECKED -- ANSWERS NOT RECORDED

(1 point)

What is the distance from the point (10, 7, -5) to the xz-plane?

Distance = 7

preview answers

Entered	Answer Preview	Correct
7	7	7

This answer is correct.

Problem 3. ANSWERS ONLY CHECKED -- ANSWERS NOT RECORDED

(1 point) Without a calculator or computer, match the functions with their graphs in the figures below. Note that two of the functions do not have a matching graph.

(a)
$$z = 2 + x^2 + y^2$$
 2

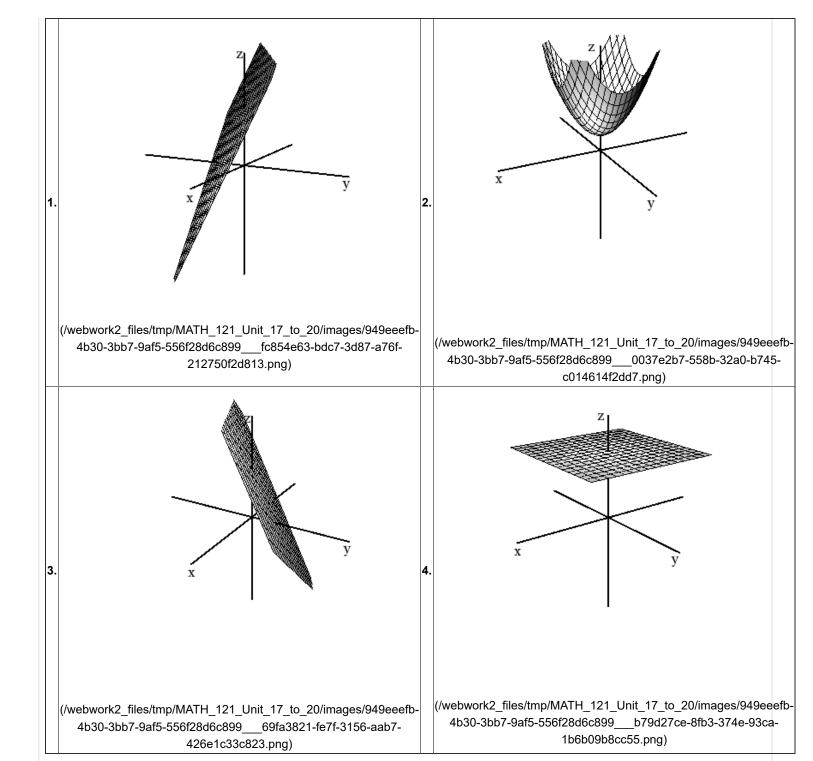
(b)
$$z=2$$
 4

(c)
$$z = 2 + x - 2y$$
 3

(d)
$$z=2-x+2y$$
 1

(e)
$$z=-2$$
 ?

(f)
$$z=2-x$$
 ?



Solution:

Note: You can earn partial credit on this problem.

preview answers

Entered	Answer Preview	Correct
2	2	2
4	4	4

3	3	3
1	1	1
?	?	none of these graphs
?	?	none of these graphs

At least one of these answers is NOT correct.

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