August 17th

[redacted]

Technical Math Pre-Test

MATH113lec01

60

9/15

Name:

For #1-4, add/subtract/multiply/divide the following signed numbers.

1. $-7 + 2 =$ -5
2. $-7 \times 2 =$ -14
3. $-7 \div 2 =$ -3.5
4. $-7 - 2 =$ -9

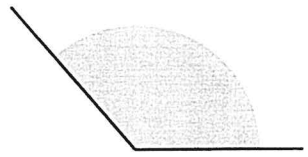
For #5-7, round the number 5.09549 to the tenths, hundredths, and thousandths place.

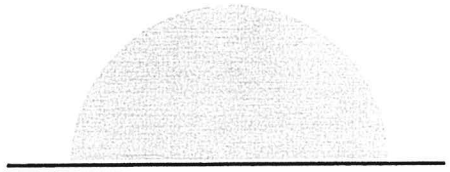
5. Tenths 5.0950 6. Hundredths 5.0969 7. Thousandths 5.09650

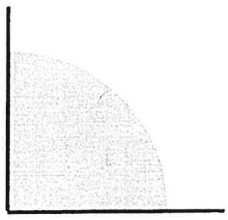
For #8-9, solve the following formulas when b = −7, h = 3, and L = 15: $A = \frac{1}{2}(-7)(3)$

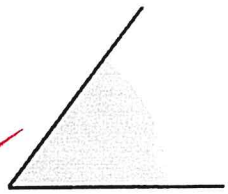
8. $A = \frac{1}{2}bh$ -10.5 9. $S = L + 2h$ 21 $15+2(3)$

For #10-13, determine if the angle is acute, obtuse, right, or straight.

10.  obtuse

11.  straight

12.  acute

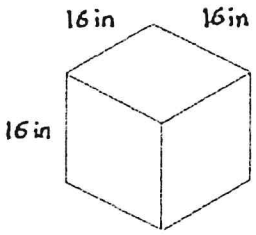
13.  right

[redacted]

Ge

2/2

For #14-15, choose the correct answer.



Find the volume of the figure above.

A) 256 in^3 B) 4096 in^3 C) 48 in^3 D) 1536 in^3

Find the total surface area of the figure above.

A) 256 in^2 B) 1536 in^2 C) 4096 in^2 D) 1536 in

14. _____ 15. _____

December 2nd

Technical Math Pre-Test [redacted] $\frac{14}{15}$

MATH113lec01

Name:

For #1-4, add/subtract/multiply/divide the following signed numbers.

1. $-7 + 2 =$ -5
2. $-7 \times 2 =$ -14
3. $-7 \div 2 =$ -3.5
4. $-7 - 2 =$ -9

For #5-7, round the number 5.09549 to the tenths, hundredths, and thousandths place.

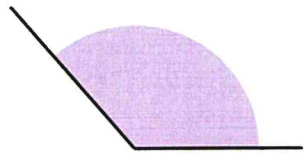
5. Tenths 5.10 6. Hundredths 5.1 7. Thousandths 5.095

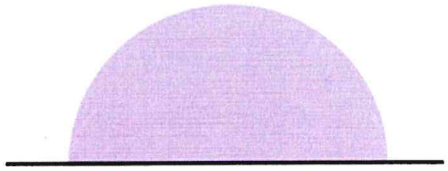
For #8-9, solve the following formulas when b = −7, h = 3, and L = 15: $A = \frac{1}{2}(-7)(3)$

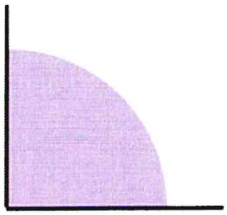
8. $A = \frac{1}{2}bh$ $A = -10.5$ 9. $S = L + 2h$ $S = 21$

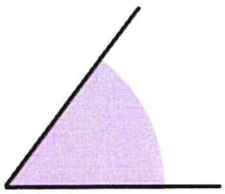
$S = 15 + 2(3)$

For #10-13, determine if the angle is acute, obtuse, right, or straight.

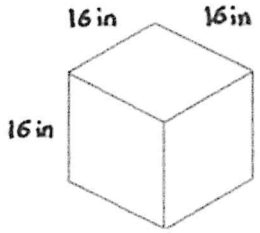
10.  obtuse

11.  straight

12.  right

13.  acute

For #14-15, choose the correct answer.



Find the volume of the figure above.

A) 256 in^3 B) 4096 in^3 C) 48 in^3 D) 1536 in^3

Find the **total** surface area of the figure above.

A) 256 in^2 B) 1536 in^2 C) 4096 in^2 D) 1536 in

14. 256 in^3 15. 1536 in^2

August 17th

Technical Math Pre-Test

MATH113lec01

$\frac{7}{15}$ 47

Name: [redacted]

For #1-4, add/subtract/multiply/divide the following signed numbers.

1. $-7 + 2 =$ -5
2. $-7 \times 2 =$ -14
3. $-7 \div 2 =$ -3.5
4. $-7 - 2 =$ -9

For #5-7, round the number 5.09549 to the tenths, hundredths, and thousandths place.

5. Tenths _____ 6. Hundredths _____ 7. Thousandths _____

For #8-9, solve the following formulas when b = −7, h = 3, and L = 15:

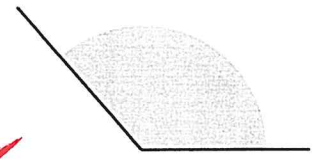
8. $A = \frac{1}{2}bh$ -20.5

$\frac{1}{2}$ -7 (3)

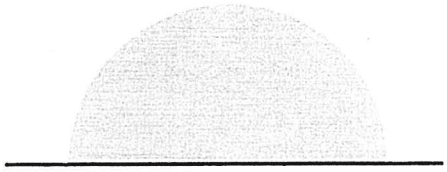
9. $S = L + 2h$ 21

15 + 2 (3)

For #10-13, determine if the angle is acute, obtuse, right, or straight.

10. 

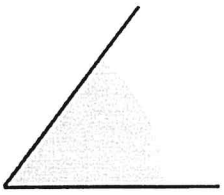
acute

11. 

straight

12.

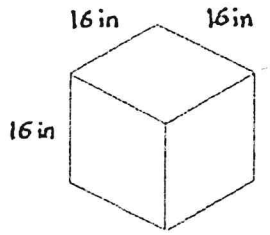
right

13. 

obtuse

[redacted]

For #14-15, choose the correct answer.



Find the volume of the figure above.

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A) 256 in^2 B) 1536 in^2 C) 4096 in^2 D) 1536 in

14. C 15. A

December 2nd

Technical Math Pre-Test

MATH113lec01

$\frac{12}{15}$

Name: [redacted]

For #1-4, add/subtract/multiply/divide the following signed numbers.

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For #5-7, round the number 5.09549 to the tenths, hundredths, and thousandths place.

5. Tenths 5.1 6. Hundredths 5.10 ~~7.~~ Thousandths 5.105

For #8-9, solve the following formulas when b = −7, h = 3, and L = 15:

8. $A = \frac{1}{2}bh$ -10.5

$A = \frac{1}{2}(-7)(3)$

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$S = 15 + 2(3)$

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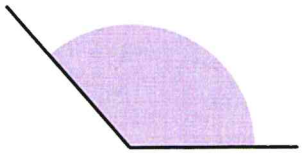
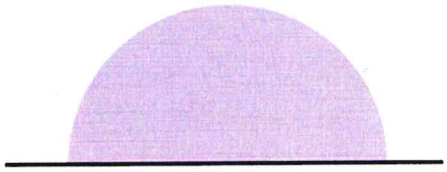
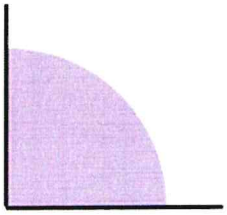
10. 

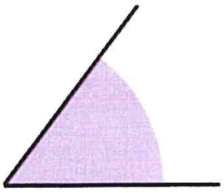
obtuse

11. 

straight

12. 

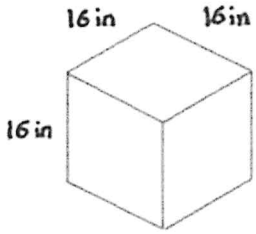
right

13. 

acute

[redacted]

For #14-15, choose the correct answer.



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Find the **total** surface area of the figure above.

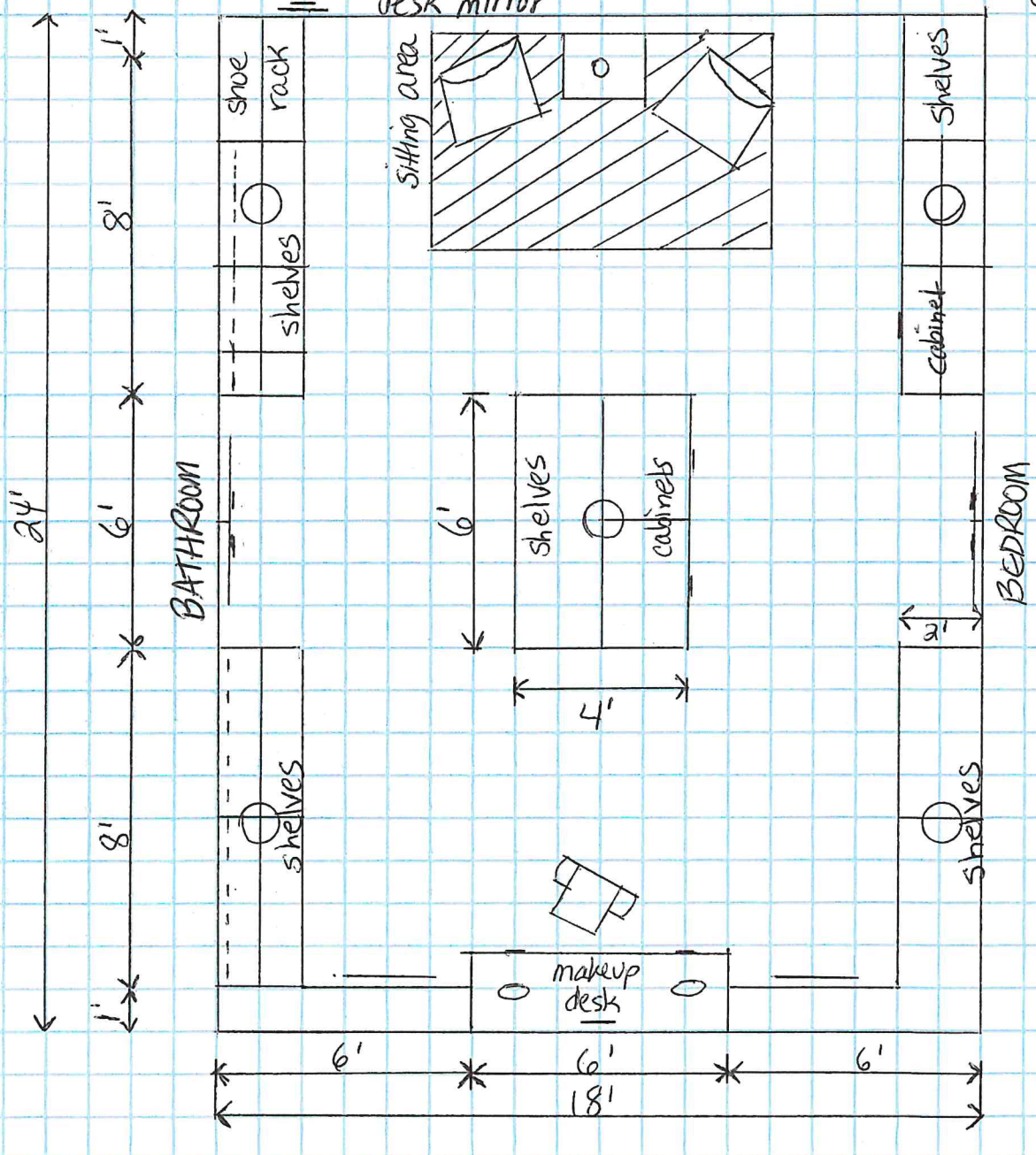
A) 256 in^2 B) 1536 in^2 C) 4096 in^2 D) 1536 in

14. C 15. A

Floorplan project:
Closet

scale: 1/4" = 1'

legend:
- table lamp
- pendant lights
- pendant lights
- hanging rods
- full length wall mirrors
- cabinet, door pulls
- desk mirror
- table
- rug
- cushioned chair
- vanity chair



scale: 1/4" = 1'
perimeter of room: 84 ft.
area of room: 432 ft^2

My Project Is
(Due 12-3-21)

Name: Gina Santoria

Project: Floorplan of my ideal closet

I plan on exhibiting my project via: (Circle one or more)

A) Graphic Design (on a computer model)

B) Physical Hand-built Model

C) Floor Plans and Schematics

D) Other (must be approved by teacher)

E) Computer game or programming (for IT majors only)

***** FYI*****

Difficultly level is determined by the concept level and detail of dimensions!!

Gina Santoria

Checklist for Final Project:

Please initial each item as you progress through the project.

GS Project is due 12-2-21.

GS I turned in *My Project Is* on 12-2-21.

GS I have read and understood the grading Rubric.

GS I have completed *What I Learned in Technical Math I and 2* (the more details, the better the grade!)

GS My model/graphic/drawing/picture/game/programming is labeled and ready for viewing.

GS I have completed at least 10 hours of work on my project (see labor sheet).

GS I am prepared to answer questions from my teacher and peers.

Gina Santoria

Labor Hours for Project

Record the time you spend on the project. You must have at least 10 hours!!

Date:	Time Spent:	Work Created:
11-13-21	3 hours	planning/rough draft
11-14-21	2 hours	" "
11-17-21	2 hours	beginning floorplan drawing
11-18-21	2 hours	completing drawing
11-21-21	2 hours	researching & completing the legend
	11 hours	

Gina Santoria

What I Learned in Tech Math…Part I

- Three concepts I used in my project:
  1. Polygon Area
  2. Polygon Perimeter
  3. measurement Conversion
- How I applied those concepts:

1.
I found the area of a polygon (rectangle) by multiplying the closet's length by its width.
24' × 18' = 432 ft.²
Area of closet is 432 ft²

2.
I found the perimeter of a polygon (rectangle) by using the formula P = 2L + 2W
24'×2 + 18'×2 = 84 ft. Perimeter of closet is 84 ft.

3.
I used measurement conversion to convert a measurement to a larger measurement using a scale of 1/4 in = 1 ft. Actual measurements of floor plan 4.5 inches (= 18 feet (width))
6 inches (= 24 feet (length))

Additional concepts used? (List them here.)

4. Measurement with rulers
5. multiplication
6. addition

What I Learned in Tech Math…Part 2

My ***scale*** is (circle one): English or Metric

Draw your scale below (ex. 1ft = 1inch)

1/4 inch = 1 ft

Dimensions of project: Measure everything! I need to know height, width, etc.

Length of closet 24 feet
Width of closet 18 feet
Perimeter of closet 84 feet
Area of closet 432 ft^2

If you are using angles in this project…provide me with angle dimensions:

All angles = 90°

Attach all work showing the above dimensions!!!

floor plan attached