

Name \_\_\_\_\_ Date \_\_\_\_\_



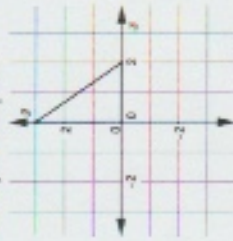
### FIND THE NETS SHEET 1

For each 3d shape, shade the correct net.

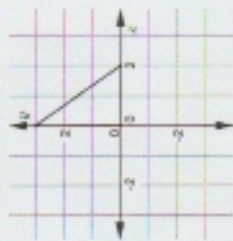


Name \_\_\_\_\_ Date \_\_\_\_\_

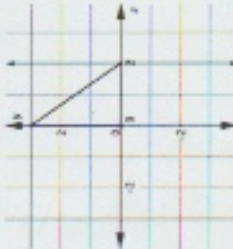
- Describe in detail the solid formed by rotating a right triangle with vertices at  $(0, 0)$ ,  $(2, 0)$ , and  $(0, 3)$  about the vertical axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



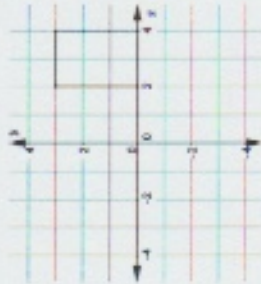
- Describe in detail the solid formed by rotating a right triangle with vertices at  $(0, 0)$ ,  $(2, 0)$ , and  $(0, 3)$  about the horizontal axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



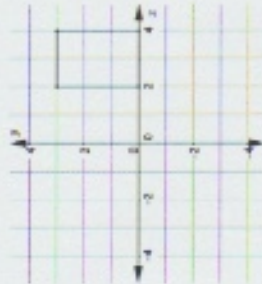
- Imagine the solid formed by rotating the same right triangle about the line  $x = 2$ . Describe this solid in detail including its dimensions.



- Describe in detail the solid formed by rotating a  $2 \times 3$  rectangle with vertices  $(2, 0)$ ,  $(4, 0)$ ,  $(2, 3)$  and  $(4, 3)$  about the  $x$ -axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



- Describe in detail the solid formed by rotating a  $2 \times 3$  rectangle with vertices  $(2, 0)$ ,  $(4, 0)$ ,  $(2, 3)$ , and  $(4, 3)$  about the  $y$ -axis. Include the dimensions (height, length, width, radius, etc) of the solid in your description.



HW 3

Class Session Worksheet Form A

Name \_\_\_\_\_ Date \_\_\_\_\_

1. A cube is formed by cutting the shaded plane shown below.



Which of the following is the cross-section of this cube?

- A
- B
- C
- D

2. A cube with a cube-like cut from its center is cut along the plane shown below.

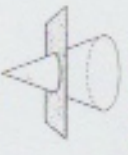


Which of the following is the cross-section of this cube?

- A
- B
- C
- D

Class Session Worksheet Form A

3. A three-sided net is cut along the shaded plane below.

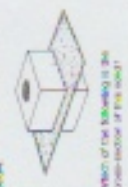


What is the shape of the cross-section?

- A Square
- B Rectangle
- C Trapezoid
- D Circle

Class Session Worksheet Form A

4. A cube with a cube-like cut from its center is cut along the plane shown below.



Which of the following is the cross-section of this cube?

- A
- B
- C
- D

Class Session Worksheet Form A

5. Show in the net of a regular dodecahedron.



How many edges does a regular dodecahedron have?

- A 14
- B 18
- C 24
- D 30

13. Which of the following is a cross-section of a sphere?



Class Session Worksheet Form A

6. Which shape represents the top view of this cube?



- A
- B
- C
- D

4. A rectangular prism is cut along the shaded plane of this figure.



Which of the following is the cross-section of this prism?

- A
- B
- C
- D

Class Session Worksheet Form A

7. The four-dimensional figure shown is composed of 12 identical cubes.



Which of the following could not be a cross-section of this figure?

- A
- B
- C
- D

Class Session Worksheet Form A

14. Which shape represents the top view of this cube?



- A
- B
- C
- D

17. A rectangular pyramid is cut along the shaded plane shown below.



Which of the following is the cross-section of this pyramid?

- A
- B
- C
- D

Class Session Worksheet Form A

38. A hemisphere is cut along the plane shown below.



Which of the following is the cross-section of this hemisphere?

- A
- B
- C
- D

# HW 4

Math 3

Find the Volume of #1-4. Find the Surface Area of #5-10  
Round to the nearest hundredth if necessary.

