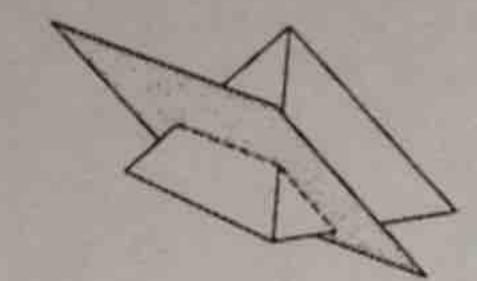
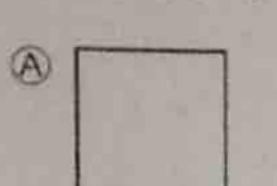
## Homework 6.7: Cross Sections

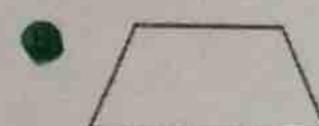
Math 3

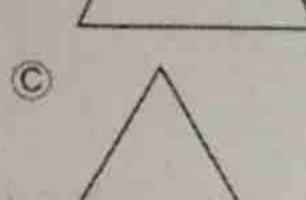
A square pyramid is cut along the shaded plane shown below.

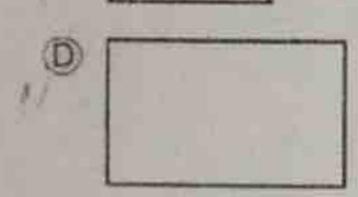


Which of the following is the cross-section of this solid?

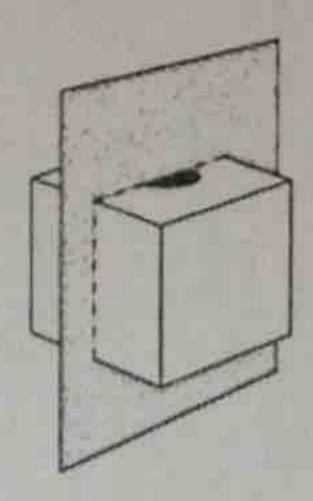




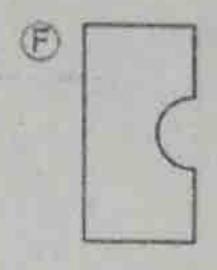


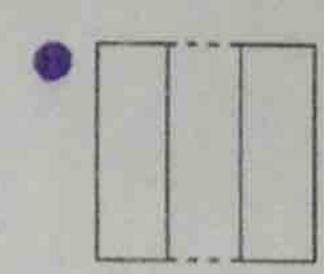


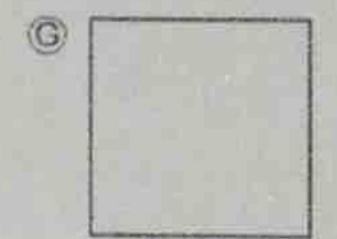
A cube with a cylinder cut from its center is cut along the plane shown below.

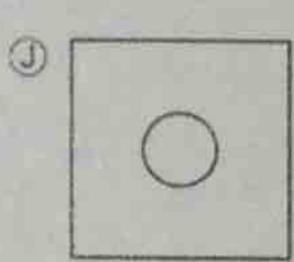


Which of the following is the cross-section of this solid?



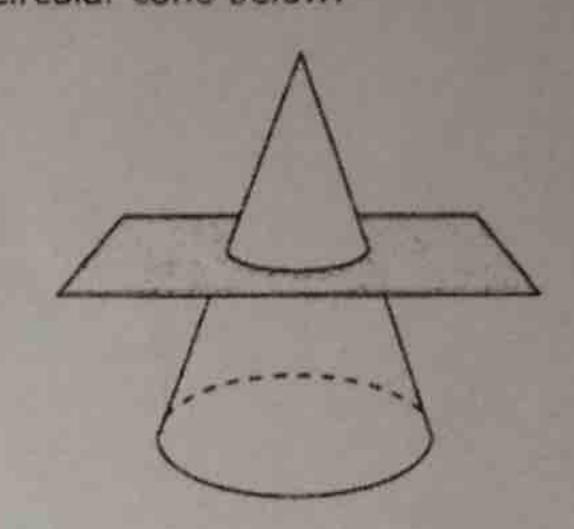






A cross-section is cut from the circular cone below.

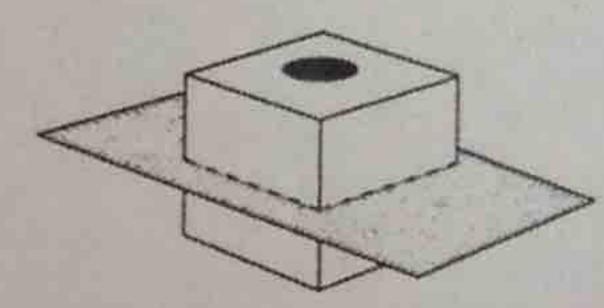
Name: \_\_\_



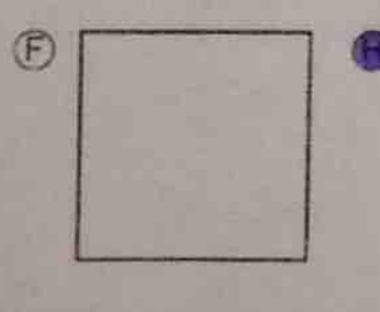
What is the shape of the cross-section?

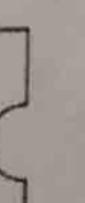
- A Square
- ® Semicircle
- © Triangle
- Circle

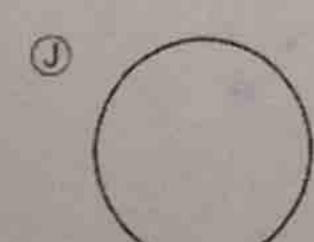
A cube with a cylinder cut from its center is cut along the plane shown below.



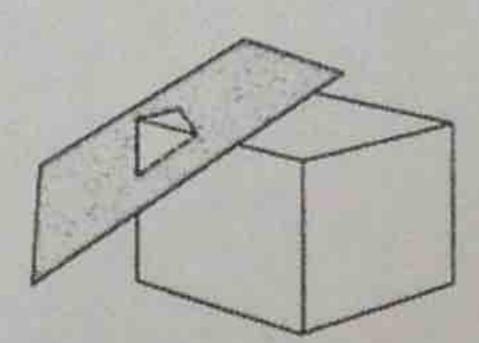
Which of the following is the cross-section of this solid?



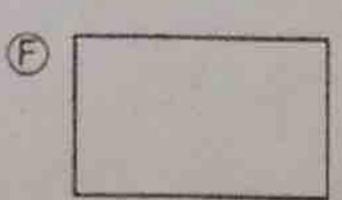


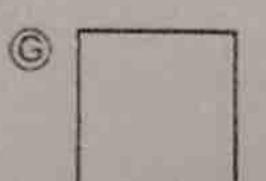


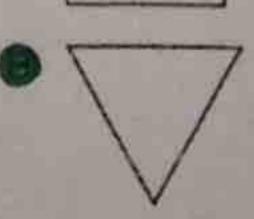
A rectangular prism is cut along the shaded plane shown below.

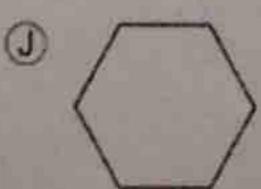


Which of the following is the cross-section of this solid?

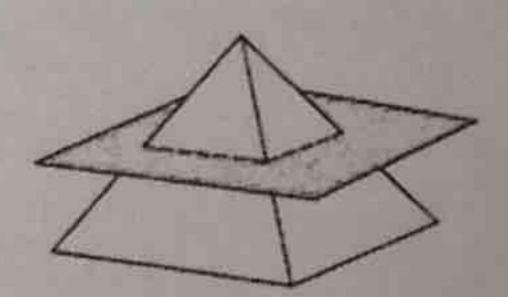




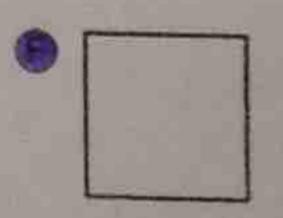


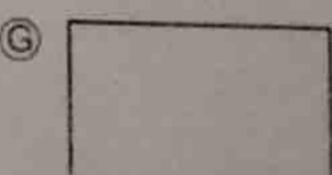


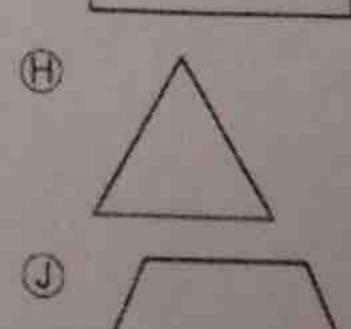
14 A square pyramid is cut along the shaded plane shown below.



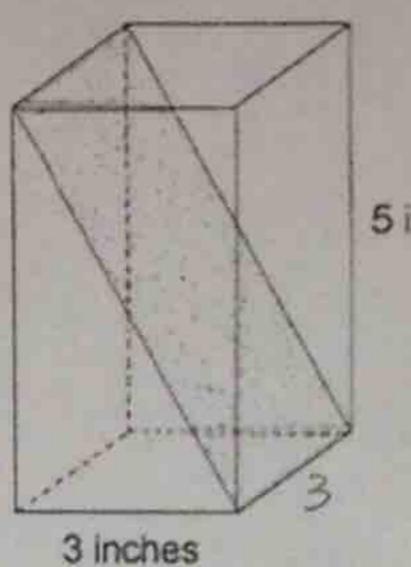
Which of the following is the cross-section of this solid?



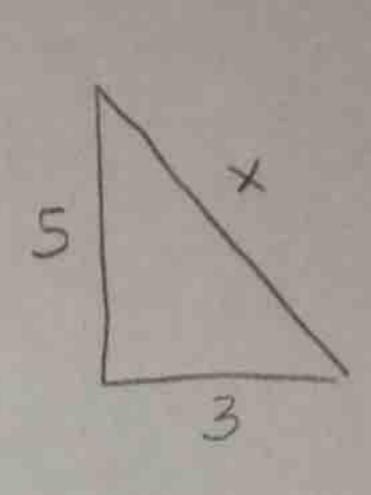




Andrew had a piece of foam in the shape of a rectangular prism as shown below. The base is a square with sides 3 inches long, and the piece is 5 inches tall. He cut the foam along the diagonal plane shown by the shaded area.



5 inches



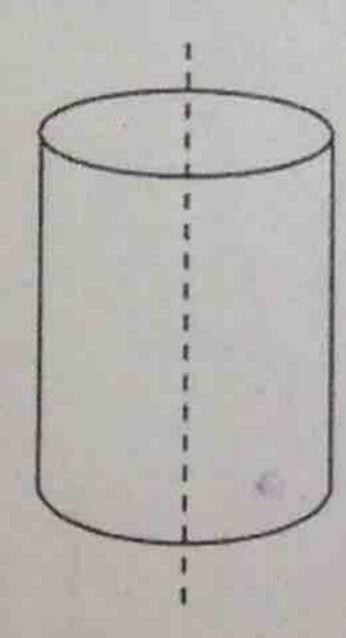
$$3^{2}+5^{2}=x^{2}$$
  
 $9+25=x^{2}$   
 $34=x^{2}$   
 $x=5.8$ 

Which of the following is closest to the area of the shaded diagonal plane?

- A 19.3 square inches
- ® 12 square inches
- © 15.8 square inches
- 17.5 square inches

3 x 5.8 = 17.4

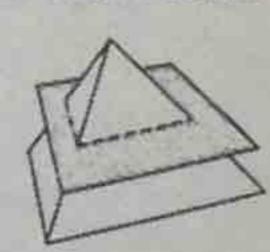
11 A cross-section is cut from the cylinder below.



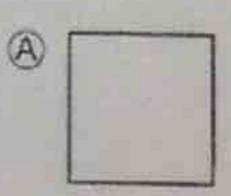
What is the shape of the cross-section?

- Rectangle
- B Circle
- © Semicircle
- ① Oval

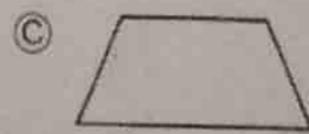
17 A triangular pyramid is cut along the shaded plane shown below.

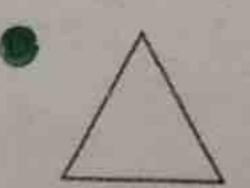


Which of the following is the cross-section of this solid?

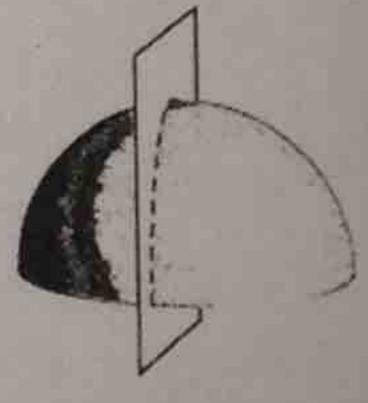


(B)





18 A hemisphere is cut along the plane shown below.



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

