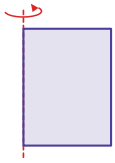
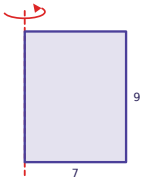
Solids of Revolution · 1

A rectangle is rotated all the way around one of its sides. What solid is formed?



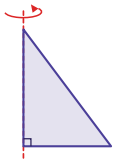
Solids of Revolution · 2

A 7 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



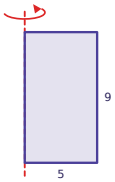
Solids of Revolution · 3

A right triangle is rotated all the way around one of its legs. What solid is formed?



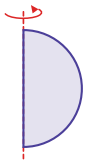
Solids of Revolution · 4

A 5 by 9 rectangle is rotated about its side of length 9. What is the radius of the cylinder formed?



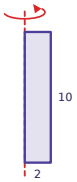
Solids of Revolution · 5

A semicircle is rotated all the way around its diameter. What solid is formed?



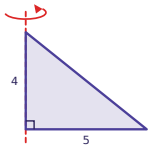
Solids of Revolution · 6

A 2 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



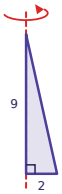
Solids of Revolution · 7

A right triangle with legs 5 and 4 is rotated about the leg of length 4. What is the height of the cone formed?



Solids of Revolution · 8

A right triangle with legs 2 and 9 is rotated about the leg of length 9. Find the volume of the solid in terms of π.



Solids of Revolution · 2

ANSWER

441π

Solids of Revolution · 1

ANSWER

cylinder

Solids of Revolution · 4

ANSWER

5

Solids of Revolution · 3

ANSWER

cone

Solids of Revolution · 6

ANSWER

40π

Solids of Revolution · 5

ANSWER

sphere

Solids of Revolution · 8

ANSWER

12π

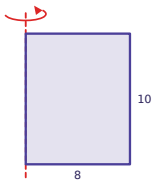
Solids of Revolution · 7

ANSWER

4

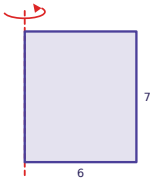
Solids of Revolution · 9

A 8 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



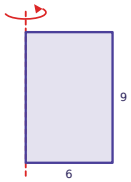
Solids of Revolution · 10

A 6 by 7 rectangle is rotated about its side of length 7. What is the radius of the cylinder formed?



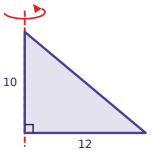
Solids of Revolution · 11

A 6 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



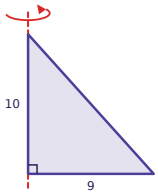
Solids of Revolution · 12

A right triangle with legs 12 and 10 is rotated about the leg of length 10. What is the height of the cone formed?



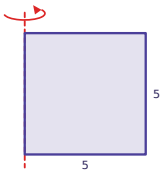
Solids of Revolution · 13

A right triangle with legs 9 and 10 is rotated about the leg of length 10. Find the volume of the solid in terms of π.



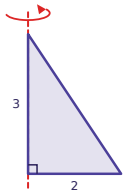
Solids of Revolution · 14

A 5 by 5 rectangle is rotated about its side of length 5. Find the volume of the solid in terms of π.



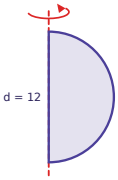
Solids of Revolution · 15

A right triangle with legs 2 and 3 is rotated about the leg of length 3. Find the volume of the solid in terms of π.



Solids of Revolution · 16

A semicircle with diameter 12 is rotated about its diameter. Find the volume of the solid in terms of π.



Solids of Revolution · 10

ANSWER

6

Solids of Revolution · 9

ANSWER

640π

Solids of Revolution · 12

ANSWER

10

Solids of Revolution · 11

ANSWER

324π

Solids of Revolution · 14

ANSWER

125π

Solids of Revolution · 13

ANSWER

270π

Solids of Revolution · 16

ANSWER

288π

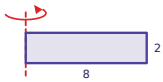
Solids of Revolution · 15

ANSWER

4π

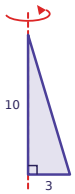
Solids of Revolution · 17

A 8 by 2 rectangle is rotated about its side of length 2. Find the volume of the solid in terms of π.



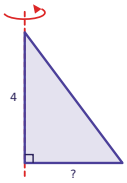
Solids of Revolution · 18

A right triangle with legs 3 and 10 is rotated about the leg of length 10. Find the volume of the solid in terms of π.



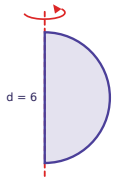
Solids of Revolution · 19

A right triangle is rotated about its leg of length 4, making a cone with volume 12π. How long is the other leg?



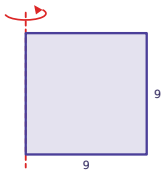
Solids of Revolution · 20

A semicircle with diameter 6 is rotated about its diameter. Find the volume of the solid in terms of π.



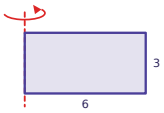
Solids of Revolution · 21

A 9 by 9 rectangle is rotated about its side of length 9. Find the volume of the solid in terms of π.



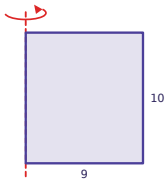
Solids of Revolution · 22

A 6 by 3 rectangle is rotated about its side of length 3. What is the radius of the cylinder formed?



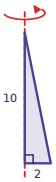
Solids of Revolution · 23

A 9 by 10 rectangle is rotated about its side of length 10. Find the volume of the solid in terms of π.



Solids of Revolution · 24

A right triangle with legs 2 and 10 is rotated about the leg of length 10. What is the height of the cone formed?



Solids of Revolution · 18

ANSWER

30π

Solids of Revolution · 17

ANSWER

128π

Solids of Revolution · 20

ANSWER

36π

Solids of Revolution · 19

ANSWER

3

Solids of Revolution · 22

ANSWER

6

Solids of Revolution · 21

ANSWER

729π

Solids of Revolution · 24

ANSWER

10

Solids of Revolution · 23

ANSWER

810π