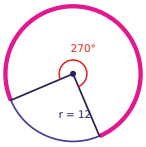
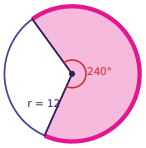
Arc Length & Area of a Sector · 1

Find the length of the highlighted arc. Leave your answer in terms of π.



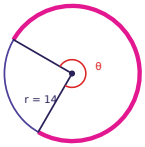
Arc Length & Area of a Sector · 2

Find the area of the shaded sector. Leave your answer in terms of π.



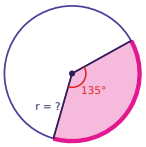
Arc Length & Area of a Sector · 3

The highlighted arc has length 21π and the radius is 14. Find the central angle θ.



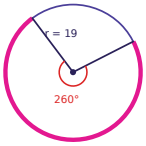
Arc Length & Area of a Sector · 4

The shaded sector has area 96π and a central angle of 135°. Find the radius.



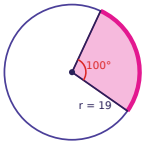
Arc Length & Area of a Sector · 5

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



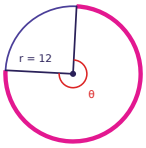
Arc Length & Area of a Sector · 6

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



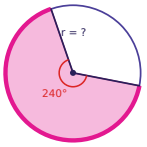
Arc Length & Area of a Sector · 7

The highlighted arc has length 18π and the radius is 12. Find the central angle θ.



Arc Length & Area of a Sector · 8

The shaded sector has area 24π and a central angle of 240°. Find the radius.



Arc Length & Area of a Sector · 2

ANSWER

96π

Arc Length & Area of a Sector · 1

ANSWER

18π

Arc Length & Area of a Sector · 4

ANSWER

16

Arc Length & Area of a Sector · 3

ANSWER

270°

Arc Length & Area of a Sector · 6

ANSWER

314.9

Arc Length & Area of a Sector · 5

ANSWER

86.2

Arc Length & Area of a Sector · 8

ANSWER

6

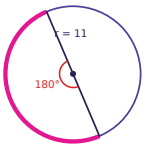
Arc Length & Area of a Sector · 7

ANSWER

270°

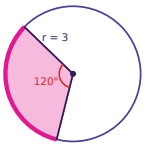
Arc Length & Area of a Sector · 9

Find the length of the highlighted arc. Leave your answer in terms of π.



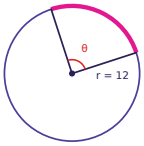
Arc Length & Area of a Sector · 10

Find the area of the shaded sector. Leave your answer in terms of π.



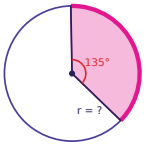
Arc Length & Area of a Sector · 11

The highlighted arc has length 6π and the radius is 12. Find the central angle θ.



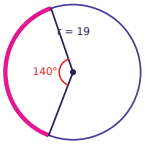
Arc Length & Area of a Sector · 12

The shaded sector has area 54π and a central angle of 135°. Find the radius.



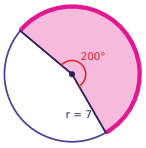
Arc Length & Area of a Sector · 13

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



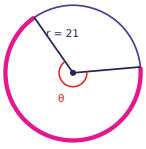
Arc Length & Area of a Sector · 14

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



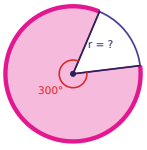
Arc Length & Area of a Sector · 15

The highlighted arc has length 28π and the radius is 21. Find the central angle θ.



Arc Length & Area of a Sector · 16

The shaded sector has area 270π and a central angle of 300°. Find the radius.



Arc Length & Area of a Sector · 10

ANSWER

3π

Arc Length & Area of a Sector · 9

ANSWER

11π

Arc Length & Area of a Sector · 12

ANSWER

12

Arc Length & Area of a Sector · 11

ANSWER

90°

Arc Length & Area of a Sector · 14

ANSWER

85.5

Arc Length & Area of a Sector · 13

ANSWER

46.4

Arc Length & Area of a Sector · 16

ANSWER

18

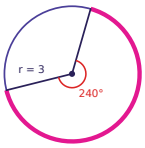
Arc Length & Area of a Sector · 15

ANSWER

240°

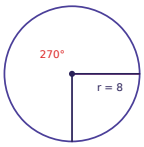
Arc Length & Area of a Sector · 17

Find the length of the highlighted arc. Leave your answer in terms of π.



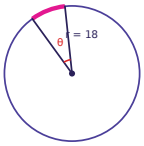
Arc Length & Area of a Sector · 18

Find the area of the shaded sector. Leave your answer in terms of π.



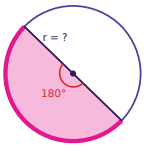
Arc Length & Area of a Sector · 19

The highlighted arc has length 3π and the radius is 18. Find the central angle θ.



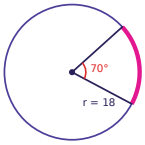
Arc Length & Area of a Sector · 20

The shaded sector has area 200π and a central angle of 180°. Find the radius.



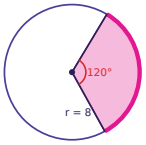
Arc Length & Area of a Sector · 21

Find the length of the highlighted arc. Use π ≈ 3.14 and round to the nearest tenth.



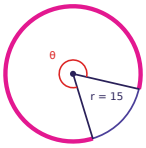
Arc Length & Area of a Sector · 22

Find the area of the shaded sector. Use π ≈ 3.14 and round to the nearest tenth.



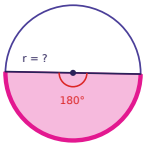
Arc Length & Area of a Sector · 23

The highlighted arc has length 25π and the radius is 15. Find the central angle θ.



Arc Length & Area of a Sector · 24

The shaded sector has area 18π and a central angle of 180°. Find the radius.



Arc Length & Area of a Sector · 18

ANSWER

48π

Arc Length & Area of a Sector · 17

ANSWER

4π

Arc Length & Area of a Sector · 20

ANSWER

20

Arc Length & Area of a Sector · 19

ANSWER

30°

Arc Length & Area of a Sector · 22

ANSWER

67.0

Arc Length & Area of a Sector · 21

ANSWER

22.0

Arc Length & Area of a Sector · 24

ANSWER

6

Arc Length & Area of a Sector · 23

ANSWER

300°