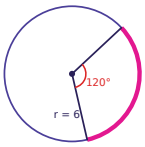
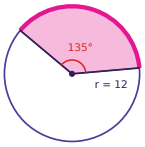
Arc Length & Area of a Sector · 1

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



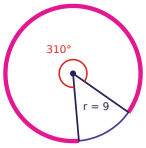
Arc Length & Area of a Sector · 2

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



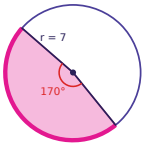
Arc Length & Area of a Sector · 3

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



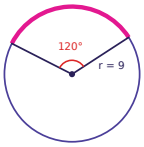
Arc Length & Area of a Sector · 4

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



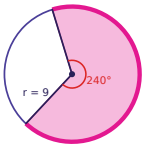
Arc Length & Area of a Sector · 5

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



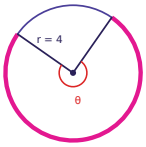
Arc Length & Area of a Sector · 6

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



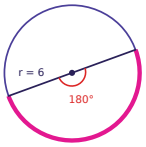
Arc Length & Area of a Sector · 7

The highlighted arc has length 6π and the radius is 4. Find the central angle θ.



Arc Length & Area of a Sector · 8

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



Arc Length & Area of a Sector · 2

ANSWER

54π

Arc Length & Area of a Sector · 1

ANSWER

4π

Arc Length & Area of a Sector · 4

ANSWER

72.7

Arc Length & Area of a Sector · 3

ANSWER

48.7

Arc Length & Area of a Sector · 6

ANSWER

54π

Arc Length & Area of a Sector · 5

ANSWER

6π

Arc Length & Area of a Sector · 8

ANSWER

6π

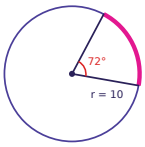
Arc Length & Area of a Sector · 7

ANSWER

270°

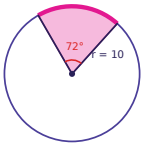
Arc Length & Area of a Sector · 9

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



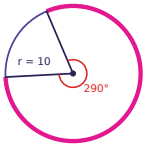
Arc Length & Area of a Sector · 10

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



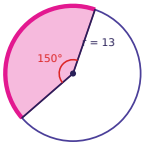
Arc Length & Area of a Sector · 11

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



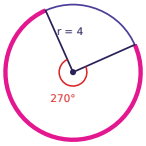
Arc Length & Area of a Sector · 12

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



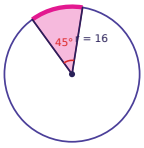
Arc Length & Area of a Sector · 13

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



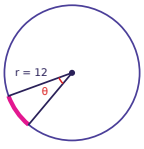
Arc Length & Area of a Sector · 14

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



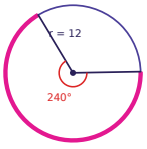
Arc Length & Area of a Sector · 15

The highlighted arc has length 2π and the radius is 12. Find the central angle θ.



Arc Length & Area of a Sector · 16

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



Arc Length & Area of a Sector · 10

ANSWER

20π

Arc Length & Area of a Sector · 9

ANSWER

4π

Arc Length & Area of a Sector · 12

ANSWER

221.1

Arc Length & Area of a Sector · 11

ANSWER

50.6

Arc Length & Area of a Sector · 14

ANSWER

32π

Arc Length & Area of a Sector · 13

ANSWER

6π

Arc Length & Area of a Sector · 16

ANSWER

16π

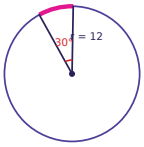
Arc Length & Area of a Sector · 15

ANSWER

30°

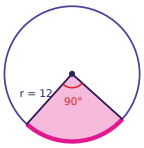
Arc Length & Area of a Sector · 17

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



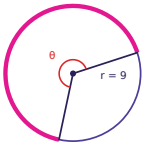
Arc Length & Area of a Sector · 18

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



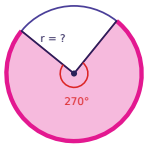
Arc Length & Area of a Sector · 19

The highlighted arc has length 12π and the radius is 9. Find the central angle θ.



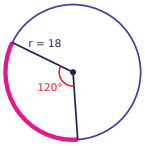
Arc Length & Area of a Sector · 20

The shaded sector has area 192π and a central angle of 270°. Find the radius.



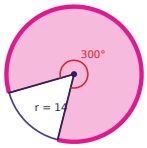
Arc Length & Area of a Sector · 21

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



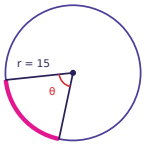
Arc Length & Area of a Sector · 22

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



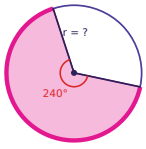
Arc Length & Area of a Sector · 23

The highlighted arc has length 6π and the radius is 15. Find the central angle θ.



Arc Length & Area of a Sector · 24

The shaded sector has area 96π and a central angle of 240°. Find the radius.



Arc Length & Area of a Sector · 18

ANSWER

36π

Arc Length & Area of a Sector · 17

ANSWER

2π

Arc Length & Area of a Sector · 20

ANSWER

16

Arc Length & Area of a Sector · 19

ANSWER

240°

Arc Length & Area of a Sector · 22

ANSWER

512.9

Arc Length & Area of a Sector · 21

ANSWER

37.7

Arc Length & Area of a Sector · 24

ANSWER

12

Arc Length & Area of a Sector · 23

ANSWER

72°