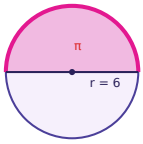
Convert 270° to radians: 270° = ___π

Convert 2π/3 radians to degrees.

Convert 60° to radians: 60° = ___π

Convert π/3 radians to degrees.

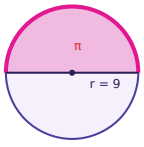
Find the length of the highlighted arc as a multiple of π: s = ___π



Convert 135° to radians: 135° = ___π

Convert π/2 radians to degrees.

Find the length of the highlighted arc as a multiple of π: s = ___π



Radians, Arc Length & Sector Area · 2

ANSWER

120

Radians, Arc Length & Sector Area · 1

ANSWER

$\frac{3}{2}$

Radians, Arc Length & Sector Area · 4

ANSWER

60

Radians, Arc Length & Sector Area · 3

ANSWER

$\frac{1}{3}$

Radians, Arc Length & Sector Area · 6

ANSWER

$\frac{3}{4}$

Radians, Arc Length & Sector Area · 5

ANSWER

6

Radians, Arc Length & Sector Area · 8

ANSWER

9

Radians, Arc Length & Sector Area · 7

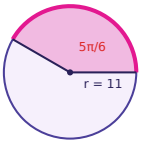
ANSWER

90

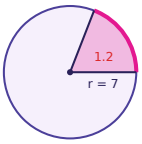
Convert 180° to radians: 180° = ___π

Convert π/4 radians to degrees.

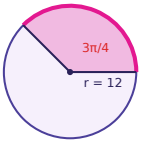
Find the length of the highlighted arc as a multiple of π: s = ___π



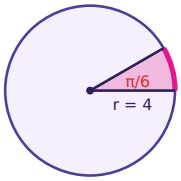
A circle has radius 7 cm. Find the length of the arc cut off by a central angle of 1.2 radians.



Find the length of the highlighted arc as a multiple of π: s = ___π

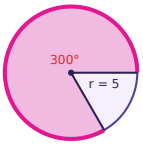


Find the area of the shaded sector as a multiple of π: A = ___π



Convert 20° to radians: 20° = ___π

Find the length of the highlighted arc as a multiple of π: s = ___π



Radians, Arc Length & Sector Area · 10

ANSWER

45

Radians, Arc Length & Sector Area · 9

ANSWER

1

Radians, Arc Length & Sector Area · 12

ANSWER

8.4

Radians, Arc Length & Sector Area · 11

ANSWER

$$\frac{55}{6}$$

Radians, Arc Length & Sector Area · 14

ANSWER

$$\frac{4}{3}$$

Radians, Arc Length & Sector Area · 13

ANSWER

9

Radians, Arc Length & Sector Area · 16

ANSWER

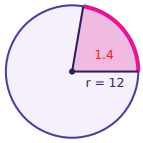
$$\frac{25}{3}$$

Radians, Arc Length & Sector Area · 15

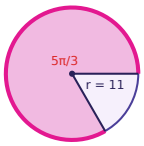
ANSWER

$$\frac{1}{9}$$

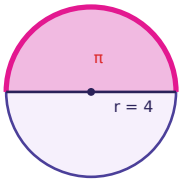
A circle has radius 12 cm. Find the length of the arc cut off by a central angle of 1.4 radians.



Find the length of the highlighted arc as a multiple of π: s = ___π



Find the area of the shaded sector as a multiple of π: A = ___π

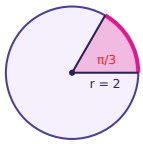


Convert 5π/6 radians to degrees.

Convert 90° to radians: 90° = ___π

Convert 3π/2 radians to degrees.

Find the length of the highlighted arc as a multiple of π: s = ___π



Convert 45° to radians: 45° = ___π

Radians, Arc Length & Sector Area · 18

ANSWER

$\frac{55}{3}$

Radians, Arc Length & Sector Area · 17

ANSWER

16.8

Radians, Arc Length & Sector Area · 20

ANSWER

150

Radians, Arc Length & Sector Area · 19

ANSWER

8

Radians, Arc Length & Sector Area · 22

ANSWER

270

Radians, Arc Length & Sector Area · 21

ANSWER

$\frac{1}{2}$

Radians, Arc Length & Sector Area · 24

ANSWER

$\frac{1}{4}$

Radians, Arc Length & Sector Area · 23

ANSWER

$\frac{2}{3}$