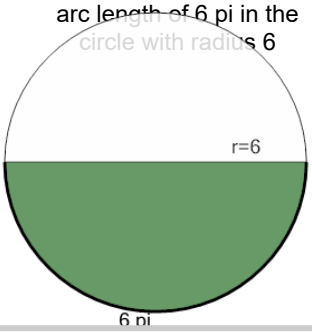
Name

Area of a Circle Sector From Arc Length to Area (Equation)

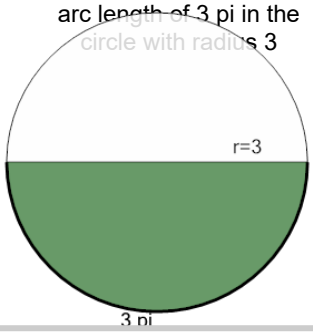
1 Find the area (in terms of π) of the green shaded sector with an arc length of 6 pi in the circle with radius 6



A $\frac{15}{2}\pi$ B $\frac{37}{4}\pi$ C 4π

D 18π

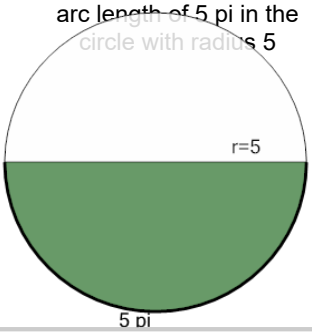
2 Find the area (in terms of π) of the green shaded sector with an arc length of 3 pi in the circle with radius 3



A $\frac{9}{2}\pi$ B 5π C $\frac{13}{2}\pi$

D $\frac{21}{4}\pi$ E $\frac{9}{4}\pi$

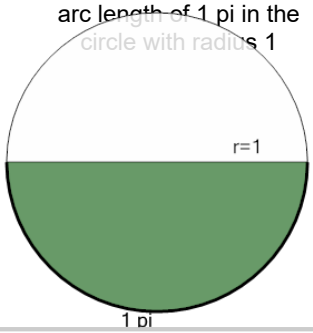
3 Find the area (in terms of π) of the green shaded sector with an arc length of 5 pi in the circle with radius 5



A $\frac{25}{2}\pi$ B $\frac{85}{4}\pi$ C $\frac{15}{4}\pi$

D $\frac{25}{4}\pi$ E 20π

4 Find the area (in terms of π) of the green shaded sector with an arc length of 1 pi in the circle with radius 1



A $\frac{9}{4}\pi$ B $\frac{1}{2}\pi$ C $\frac{7}{4}\pi$

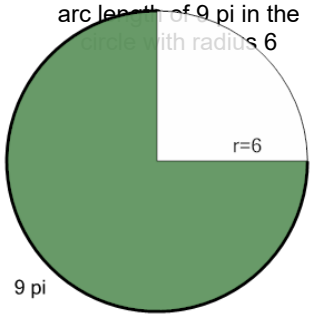
D 2π E 1π

5 Find the area (in terms of π) of the green shaded sector with an arc length of 2 pi in the circle with radius 4

A 5π B 4π C $\frac{11}{4}\pi$

D 3π

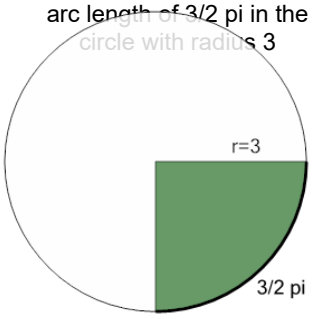
6 Find the area (in terms of π) of the green shaded sector with an arc length of 9 pi in the circle with radius 6



A 7π B 22π C $\frac{49}{2}\pi$

D 27π

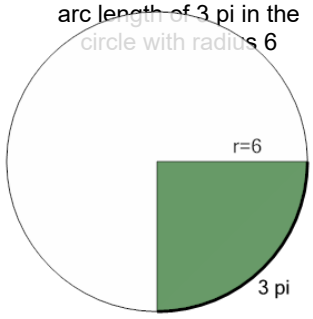
7 Find the area (in terms of π) of the green shaded sector with an arc length of 3/2 pi in the circle with radius 3



A $\frac{7}{2}\pi$ B 4π C $\frac{15}{4}\pi$

D $\frac{9}{4}\pi$ E $\frac{7}{4}\pi$

8 Find the area (in terms of π) of the green shaded sector with an arc length of 3 pi in the circle with radius 6



A 9π B $\frac{51}{4}\pi$ C $\frac{21}{4}\pi$

D $\frac{27}{4}\pi$ E $\frac{9}{2}\pi$

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