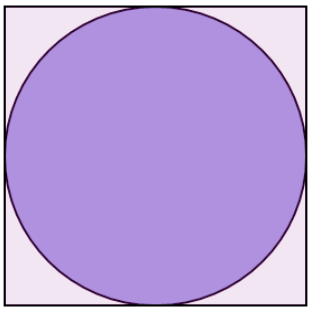
Name

Inscribed Circle in Square - Circle Area to Square Side Length

1 Find the side length of a square that has an inscribed circle of area 3



A $2\sqrt{\frac{3}{\pi}}$

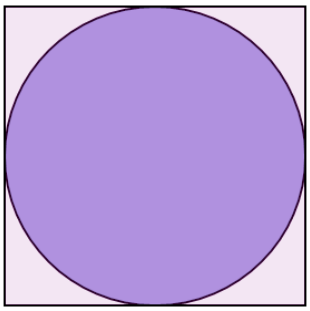
B $\frac{18^2}{2}\pi$

C $2\sqrt{\frac{1}{\pi}}$

D 9π

E $4\sqrt{6}$

2 Find the side length of a square that has an inscribed circle of area 5



A $2\sqrt{\frac{25}{2\pi}}$

B $2\sqrt{\frac{2}{\pi}}$

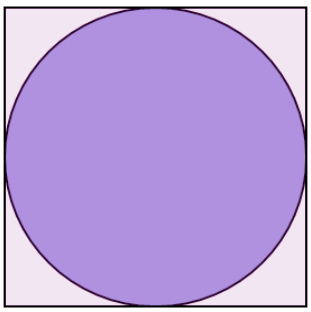
C $\frac{10}{\pi}$

D $2\sqrt{\frac{50}{2\pi}}$

E $2\sqrt{\frac{5}{\pi}}$

F $\frac{25}{\pi}$

3 Find the side length of a square that has an inscribed circle of area 6



A $\frac{72}{\pi}$

B $2\sqrt{\frac{6}{\pi}}$

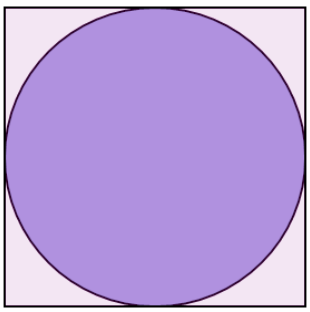
C $4\sqrt{72}$

D $\frac{36}{\pi}$

E $2\sqrt{\frac{3}{\pi}}$

F 18π

4 Find the side length of a square that has an inscribed circle of area 8



A 64π

B $\frac{128^2}{2}\pi$

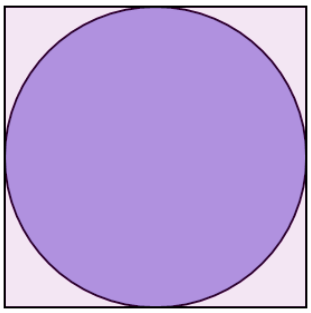
C $\frac{64^2}{2}\pi$

D $2\sqrt{\frac{8}{\pi}}$

E 16π

F $2\sqrt{\frac{4}{\pi}}$

5 Find the side length of a square that has an inscribed circle of area 2



A 4

B $\frac{4}{2}\sqrt{2}$

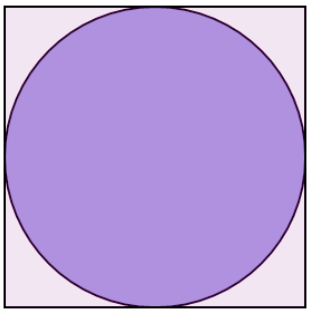
C $2\sqrt{\frac{1}{\pi}}$

D $2\sqrt{\frac{2}{2}}$

E $\frac{8^2}{2}\pi$

F $2\sqrt{\frac{2}{\pi}}$

6 Find the side length of a square that has an inscribed circle of area 7



A $2\sqrt{\frac{14}{2\pi}}$

B $2\sqrt{\frac{3}{\pi}}$

C $\frac{49}{\pi}$

D $2\sqrt{\frac{7}{\pi}}$

E $\frac{25^2}{2}\pi$

F $\frac{98^2}{2}\pi$