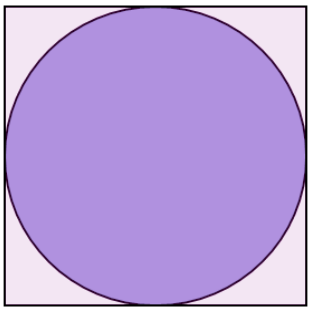
Name

Inscribed Circle in Square - Circle Area to Square Area

1 Find the area of the square that has an inscribed circle of area 7



A $(\sqrt{25})^2\pi$

B $(\sqrt{49})^2\pi$

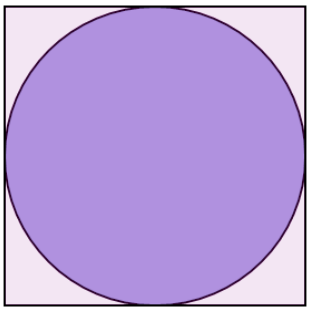
C $2\sqrt{\frac{49}{2\pi}}$

D $\frac{14}{\pi}$

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

F $\frac{28}{\pi}$

2 Find the area of the square that has an inscribed circle of area 4



A $\frac{8}{\pi}$

B $\frac{16^2}{2}\pi$

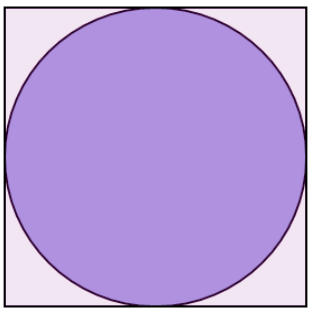
C 16π

D $\frac{16}{\pi}$

E $\frac{16}{2}\sqrt{2}$

F $2\sqrt{\frac{32}{2\pi}}$

3 Find the area of the square that has an inscribed circle of area 2



A $\frac{4}{\pi}$

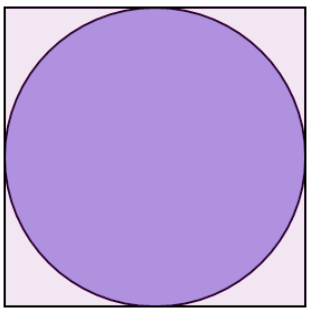
B 2π

C $\frac{8}{\pi}$

D 4π

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

4 Find the area of the square that has an inscribed circle of area 6



A 12

B $4\sqrt{36}$

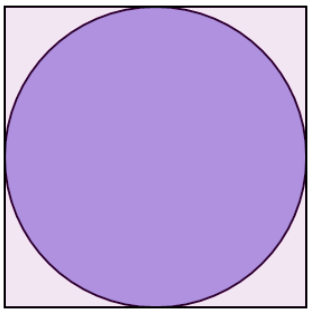
C $2\sqrt{\frac{72}{2\pi}}$

D $\frac{24}{\pi}$

E 72

F $\frac{12}{\pi}$

5 Find the area of the square that has an inscribed circle of area 5



A $\frac{20}{\pi}$

B $\frac{10}{\pi}$

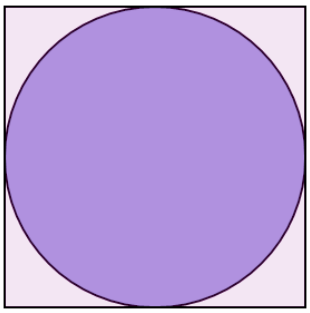
C $\frac{13}{\pi}$

D $4\sqrt{13}$

E 10π

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

6 Find the area of the square that has an inscribed circle of area 8



A $\frac{16}{\pi}$

B $\frac{32}{\pi}$

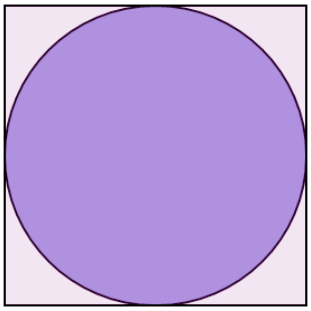
C $\frac{32}{2}\sqrt{2}$

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

E $\frac{32^2}{2}\pi$

F $\frac{128}{\pi}$

7 Find the area of the square that has an inscribed circle of area 3



A $(\sqrt{18})^2\pi$

B $\frac{9^2}{2}\pi$

C $\frac{6}{\pi}$

D 18

E $\frac{6^2}{2}\pi$

F $\frac{12}{\pi}$