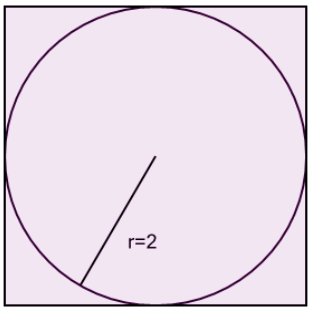
Name

Inscribed Circle in Square - Circle Radius to Square Area

1 Find the area of the square that has an inscribed circle with radius 2



A 16

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

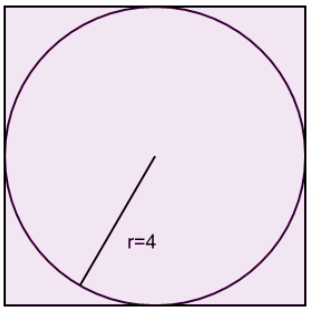
C $\frac{4}{2}\sqrt{2}$

D $4\sqrt{8}$

E $(\sqrt{8})^2\pi$

F 8

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



A 32

B 16π

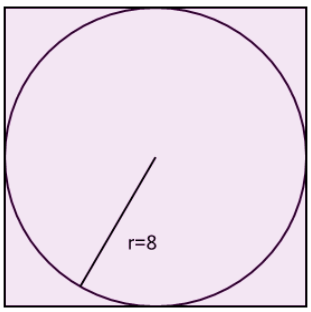
C $2\sqrt{\frac{8}{2\pi}}$

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

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

F 64

3 Find the area of the square that has an inscribed circle with radius 8



A 64

B 128

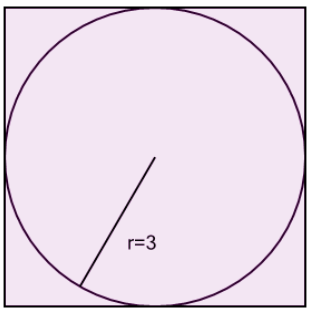
C $2\sqrt{\frac{32}{2\pi}}$

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

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

F 256

4 Find the area of the square that has an inscribed circle with radius 3



A 36

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

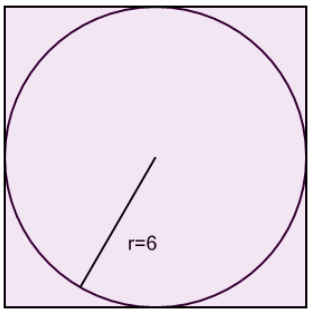
C $\frac{18^2}{2}\pi$

D $\frac{9}{2}\sqrt{2}$

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

F 18

5 Find the area of the square that has an inscribed circle with radius 6



A 144

B 72

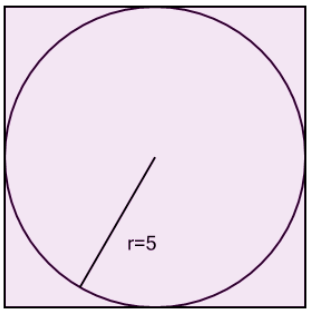
C $\frac{12^2}{2}\pi$

D $2\sqrt{\frac{36}{2}}$

E 36

F $\frac{72}{\pi}$

6 Find the area of the square that has an inscribed circle with radius 5



A 50

B 13

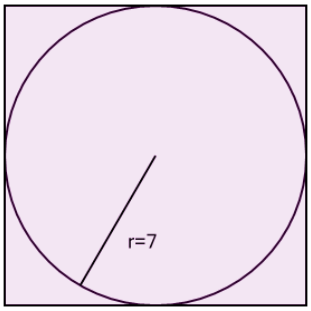
C 100

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

E $\frac{13^2}{2}\pi$

F 13π

7 Find the area of the square that has an inscribed circle with radius 7



A 196

B 25π

C $\frac{14^2}{2}\pi$

D $\frac{98}{2}\sqrt{2}$

E 98