SAT NC: Thursday 10/25

A circle of radius 3 has the same area as a square of side x. Find x.

πr^2

$\pi \cdot 3^2 = x^2$

$x^2 = \pi r^2$

$x^2 = \pi (3)^2$

$\sqrt{x^2} = \sqrt{9\pi}$

$x = 3\sqrt{\pi}$

a) 3π

b) $3\sqrt{\pi}$

c) $\pi\sqrt{3}$

d) π

if you confused the area with the circumference

$C = 2\pi r$

$= 2\pi \cdot 2$

$= 4\pi$

$\frac{4\pi}{4} = \frac{4x}{4}$ you get d which is incorrect