

1. What is your name?

Brock Francom

2. A circle is inscribed in a 12' by 12' square. An experiment is conducted in which a very sharp pin randomly pricks the interior of the square. For each of the following events, predict the probability that it occurs; display the computation:

A. X = A point in the interior of the square is pricked but it is not in the interior of the circle.

$$P(X) = \frac{144 - 36\pi}{144} = .2146$$

B. X = A point on the circle is pricked.

$$P(X) = 0$$

C. X = The center of the circle is pricked.

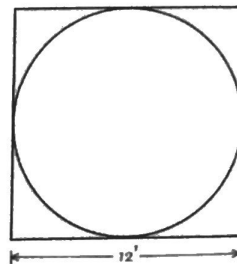
$$P(X) = 0$$

D. X = A point in the interior of the circle is pricked.

$$P(X) = \frac{36\pi}{144} = .7854$$

E. X = A point in the interior of the square is pricked.

$$P(X) = 1$$



$$A_s = 12 \cdot 12 = 144$$

$$A_c = \pi r^2 = \pi 6^2 = 36\pi$$

3. Smile.