1 Write a single statement that uses the sqrt() method of the Math class to compute the square root of the product of two numbers, \( x \) and \( y \) and to assign the result to a variable \( a \). Assume all variables have already been declared with type double.

\[
a = \text{Math.sqrt}(x \times y);
\]

2. Assuming that a Random object has been created called \texttt{generator}, what is the range of the result of each of the following expressions?

\[
\text{generator.nextInt(7)}
\]

\[
0 \text{ to } 6
\]

\[
\text{generator.nextInt(3)} + 8
\]

\[
8 \text{ to } 10
\]

\[
\text{generator.nextInt(5)} - 4
\]

\[
-4 \text{ to } 0
\]
1 Write a single statement that uses the sqrt() method of the Math class to compute the square root of the product of two numbers, a and b and to assign the result to a variable x. Assume all variables have already been declared with type double.

\[ x = Math.sqrt(a*b); \]

2. Assuming that a Random object has been created called generator, what is the range of the result of each of the following expressions?

\[ \text{generator.nextInt}(8) \]

0 to 7

\[ \text{generator.nextInt}(5) + 4 \]

4 to 8

\[ \text{generator.nextInt}(3) - 7 \]

-7 to -5