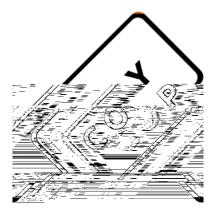
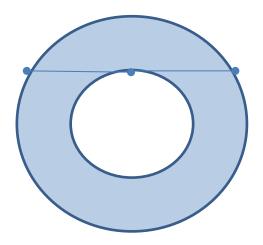


A copying machine can make copies that are 80%, 100%, or 150% as large as the original. By making copies of copies, what is the smallest number of times one must use the machine to obtain a copy that is 324% as large as the original?



Knowing that the segment shown in the picture is 8 inches long, calculate the shaded ring area between the two circles. Give the result in square inches, approximated to three decimal places.





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If $a^2 5a 2 0$



Solve the equation and find TWO integer solutions.

$$2\log_{18 \ x \ 1^{2} \ x \ 7} \ x^{2} \ 4x \ 3 \ \log_{x^{2} \ 4x \ 3} \ 18 \ x \ 1^{2} \ x \ 7 \ 3$$

| Find ———— ——— | |
|------------------|--|
| _ | |