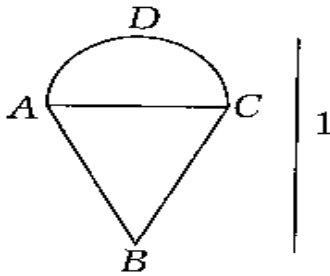


# Problem of the Month Name \_\_\_\_\_

## (November) Date Submitted \_\_\_\_\_

Time Submitted \_\_\_\_\_

A semicircle is adjoined to one side of equilateral triangle  $ABC$  as shown. The midpoint of the semicircle is point  $D$ . If  $BD = 1$ , what is the exact length of each side of the equilateral triangle?



\$10 prize for the first correct solution. If interested download a copy of the problem from the school website and return it to reception when done. Deadline for submission – Mon. Nov. 24 @ 8:30 am