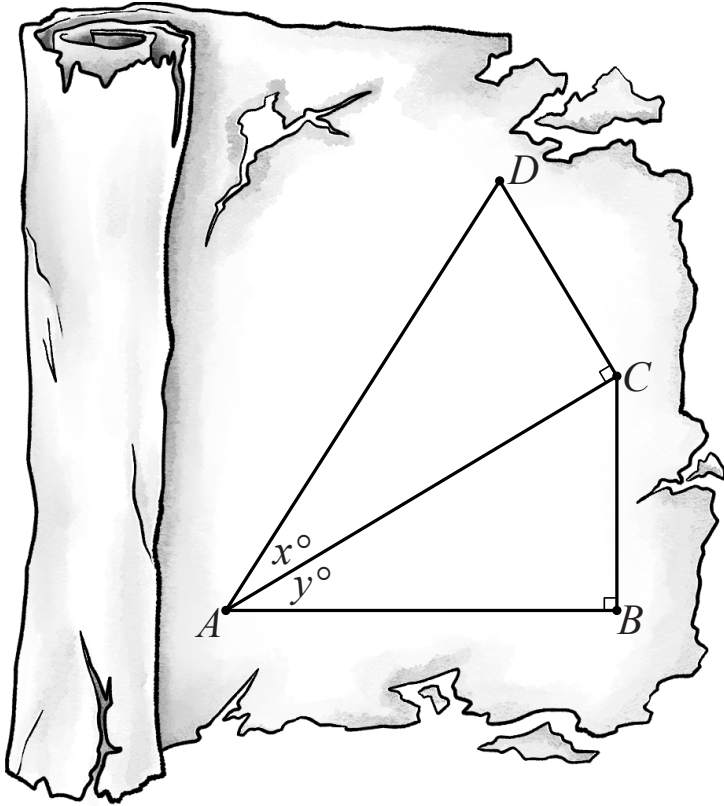


THE SCROLLS – STUDENT A



The focus of this task is to uncover the identity for $\sin(x + y)$. To ensure your success, you must work together efficiently and communicate effectively.

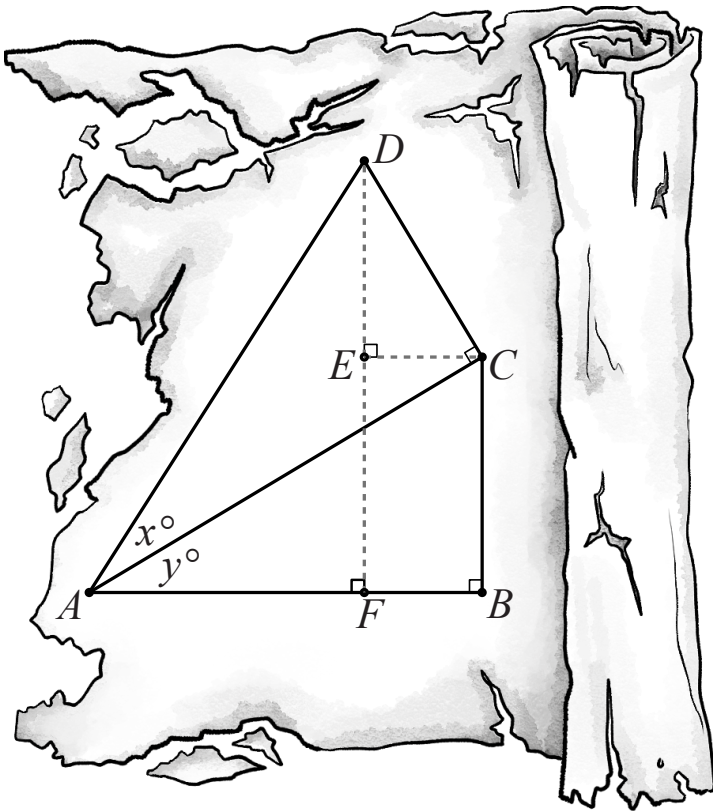
Step 1: Independent Work

Use the figure above to write ratios using sine and cosine.

Step 2: Independent Work

Rewrite and simplify your equations above using $\overline{AD} = 1$.

THE SCROLLS – STUDENT B



The focus of this task is to uncover the identity for $\sin(x + y)$. To ensure your success, you must work together efficiently and communicate effectively.

Step 1: Independent Work

Find $m\angle CDE$ in terms of x and/or y . *Hint: Use the alternate interior angles theorem.*

Step 2: Independent Work

Then use $\triangle CDE$ to write ratios using sine and cosine.