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Performance Task - Slope using fractions
Here is a side view of a water coaster. The slope of each segment is given.
Determine the coordinates of each point A to $F$.


Point $A$-using slope Formula Point $B$

$$
\begin{aligned}
& m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} \\
& \frac{-8}{7}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} \quad-8=y_{2}-12 \\
& \frac{-8}{7}=\frac{y_{2}-12}{x_{2}-10} \longrightarrow \frac{-8+12=y_{2}}{4=y_{2}} 7=x_{2}-10 \\
& m=\frac{6}{5} \\
& 6=y_{2}-4 \\
& 6+4=y_{2} \\
& 10=y_{2} \\
& 7+10=x_{2} \\
& S=x_{2}-17 \\
& 5+17=x_{2} \\
& 22=x_{2} \\
& (17,4) \\
& m=\frac{4-12}{17-10}=-\frac{8}{7} \\
& m=\frac{10-4}{22-17}=\frac{6}{5}
\end{aligned}
$$

$$
\begin{gathered}
\text { Point } c \\
m=\frac{-2}{3} \\
-2=y_{2}-y_{1} \\
-2=y_{2}-10 \\
-2+10=y_{2} \\
8=y_{2} \\
3=x_{2}-x_{1} \\
3=x_{2}-22 \\
3+22=x_{2} \\
25=x_{2} \\
\frac{(25,8)}{25-22} \\
m=\frac{8-10}{25}=\frac{-2}{3}
\end{gathered}
$$

