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Exploring Trigonometric Ratios Investigation Worksheet

Step 1: Fill in the table below with the values observed with no changes to the triangles

Opposite Hypotenuse	$\frac{a}{b}$ =	$\frac{d}{e} =$	Sin a =
Adjacent Hypotenuse	$\frac{c}{b}$ =	$\frac{f}{e} =$	Cos a =
Opposite Adjacent	$\frac{a}{c}$ =	$\frac{d}{f} =$	Tan a =

Step 2: Drag point A or C to a new position and observe the change in the values. Complete the table below with the new values.

Opposite Hypotenuse	$\frac{a}{b}$ =	$\frac{d}{e} =$	Sin a =
Adjacent Hypotenuse	$\frac{c}{b}$ =	$\frac{f}{e} =$	Cos a =
Opposite Adjacent	$\frac{a}{c}$ =	$\frac{d}{f} =$	Tan a =

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Step 3: Click on the show angles box in the top right corner? What do you notice about the angles in both triangles?

Step 4: Drag point F to a new position. What did you observe about the trigonometric ratios?