

Name _____

Date _____

Angle Sum and Difference, Double Angle and Half Angle Formulas - Step-by-Step Lesson

Find the exact value of:

$$\sin 50^\circ \cos 25^\circ - \cos 50^\circ \sin 25^\circ$$



Explanation:

According to the formula:

$$\sin A \cos B - \cos A \sin B = \sin (A-B)$$

$$\sin 50^\circ \cos 25^\circ - \cos 50^\circ \sin 25^\circ = \sin (50^\circ - 25^\circ)$$

$$\sin 50^\circ \cos 25^\circ - \cos 50^\circ \sin 25^\circ = \sin (25^\circ)$$

$$\sin 50^\circ \cos 25^\circ - \cos 50^\circ \sin 25^\circ = 0.4$$

Answer is: 0.4

