Sum & Difference Formulas · 1

Use a sum or difference formula to find the exact value of sin(75°).

Sum & Difference Formulas · 2

Find the exact value: sin(50°)cos(20°) - cos(50°)sin(20°)

Sum & Difference Formulas · 3

Find the exact value: sin(115°)cos(55°) - cos(115°)sin(55°)

Sum & Difference Formulas · 4

Use a sum or difference formula to find the exact value of sin(15°).

Sum & Difference Formulas · 5

Find the exact value: sin(160°)cos(70°) - cos(160°)sin(70°)

Sum & Difference Formulas · 6

Find the exact value: cos(65°)cos(20°) + sin(65°)sin(20°)

Sum & Difference Formulas · 7

Use a sum or difference formula to find the exact value of cos(75°).

Sum & Difference Formulas · 8

Find the exact value: cos(5°)cos(40°) - sin(5°)sin(40°)

Sum & Difference Formulas · 2

ANSWER

$$\frac{1}{2}$$

Sum & Difference Formulas · 1

ANSWER

$$\frac{\sqrt{6} + \sqrt{2}}{4}$$

Sum & Difference Formulas · 4

ANSWER

$$\frac{\sqrt{6} - \sqrt{2}}{4}$$

Sum & Difference Formulas · 3

ANSWER

$$\frac{\sqrt{3}}{2}$$

Sum & Difference Formulas · 6

ANSWER

$$\frac{\sqrt{2}}{2}$$

Sum & Difference Formulas · 5

ANSWER

$$1$$

Sum & Difference Formulas · 8

ANSWER

$$\frac{\sqrt{2}}{2}$$

Sum & Difference Formulas · 7

ANSWER

$$\frac{\sqrt{6} - \sqrt{2}}{4}$$

Sum & Difference Formulas · 9

Find the exact value: $\sin(50°)\cos(5°) - \cos(50°)\sin(5°)$

Sum & Difference Formulas · 10

Find the exact value: $\sin(85°)\cos(40°) - \cos(85°)\sin(40°)$

Sum & Difference Formulas · 11

Use a sum or difference formula to find the exact value of $\cos(15°)$.

Sum & Difference Formulas · 12

Find the exact value: $\sin(50°)\cos(40°) + \cos(50°)\sin(40°)$

Sum & Difference Formulas · 13

Find the exact value: $\sin(10°)\cos(50°) + \cos(10°)\sin(50°)$

Sum & Difference Formulas · 14

Find the exact value: $\sin(10°)\cos(20°) + \cos(10°)\sin(20°)$

Sum & Difference Formulas · 15

Use a sum or difference formula to find the exact value of $\sin(105°)$.

Sum & Difference Formulas · 16

Find the exact value: $\sin(5°)\cos(55°) + \cos(5°)\sin(55°)$

Sum & Difference Formulas · 10

ANSWER

$$\frac{\sqrt{2}}{2}$$

Sum & Difference Formulas · 9

ANSWER

$$\frac{\sqrt{2}}{2}$$

Sum & Difference Formulas · 12

ANSWER

$$1$$

Sum & Difference Formulas · 11

ANSWER

$$\frac{\sqrt{6}+\sqrt{2}}{4}$$

Sum & Difference Formulas · 14

ANSWER

$$\frac{1}{2}$$

Sum & Difference Formulas · 13

ANSWER

$$\frac{\sqrt{3}}{2}$$

Sum & Difference Formulas · 16

ANSWER

$$\frac{\sqrt{3}}{2}$$

Sum & Difference Formulas · 15

ANSWER

$$\frac{\sqrt{6}+\sqrt{2}}{4}$$

Sum & Difference Formulas · 17

A and B are acute angles with $\sin A = \frac{5}{13}$ and $\cos B = \frac{15}{17}$. Find the exact value of $\cos(A + B)$.

Sum & Difference Formulas · 18

Use a sum or difference formula to find the exact value of cos(105°).

Sum & Difference Formulas · 19

A and B are acute angles with $\sin A = \frac{3}{5}$ and $\cos B = \frac{12}{13}$. Find the exact value of $\cos(A + B)$.

Sum & Difference Formulas · 20

Find the exact value: sin(25°)cos(20°) + cos(25°)sin(20°)

Sum & Difference Formulas · 21

Find the exact value: sin(110°)cos(20°) - cos(110°)sin(20°)

Sum & Difference Formulas · 22

Find the exact value: sin(170°)cos(80°) - cos(170°)sin(80°)

Sum & Difference Formulas · 23

Find the exact value: sin(95°)cos(50°) - cos(95°)sin(50°)

Sum & Difference Formulas · 24

Find the exact value: sin(95°)cos(65°) - cos(95°)sin(65°)

Sum & Difference Formulas · 18

ANSWER

$$\frac{\sqrt{2} - \sqrt{6}}{4}$$

Sum & Difference Formulas · 17

ANSWER

$$\frac{140}{221}$$

Sum & Difference Formulas · 20

ANSWER

$$\frac{\sqrt{2}}{2}$$

Sum & Difference Formulas · 19

ANSWER

$$\frac{33}{65}$$

Sum & Difference Formulas · 22

ANSWER

$$1$$

Sum & Difference Formulas · 21

ANSWER

$$1$$

Sum & Difference Formulas · 24

ANSWER

$$\frac{1}{2}$$

Sum & Difference Formulas · 23

ANSWER

$$\frac{\sqrt{2}}{2}$$