Sum & Difference Formulas · 1

Use a sum or difference formula to find the exact value of tan(255°).

Sum & Difference Formulas · 2

Find the exact value: sin(95°)cos(5°) - cos(95°)sin(5°)

Sum & Difference Formulas · 3

A and B are acute angles with $\sin A = \frac{5}{13}$ and $\cos B = \frac{24}{25}$. Find the exact value of cos(A - B).

Sum & Difference Formulas · 4

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

Sum & Difference Formulas · 5

Find the exact value: cos(5°)cos(25°) - sin(5°)sin(25°)

Sum & Difference Formulas · 6

A and B are acute angles with $\sin A = \frac{8}{17}$ and $\cos B = \frac{12}{13}$. Find the exact value of cos(A + B).

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: sin(35°)cos(55°) + cos(35°)sin(55°)

Sum & Difference Formulas · 2

ANSWER

$$1$$

Sum & Difference Formulas · 1

ANSWER

$$2 + \sqrt{3}$$

Sum & Difference Formulas · 4

ANSWER

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

Sum & Difference Formulas · 3

ANSWER

$$\frac{323}{325}$$

Sum & Difference Formulas · 6

ANSWER

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

Sum & Difference Formulas · 5

ANSWER

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

Sum & Difference Formulas · 8

ANSWER

$$1$$

Sum & Difference Formulas · 7

ANSWER

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

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

Find the exact value: cos(70°)cos(20°) - sin(70°)sin(20°)

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

Find the exact value: cos(55°)cos(35°) - sin(55°)sin(35°)

A and B are acute angles with $\sin A = \frac{5}{13}$ and $\cos B = \frac{24}{25}$. Find the exact value of sin(A + B).

Use a sum or difference formula to find the exact value of cos(165°).

Find the exact value: sin(215°)cos(65°) - cos(215°)sin(65°)

Use a sum or difference formula to find the exact value of cos(195°).

Sum & Difference Formulas · 10

ANSWER

$$0$$

Sum & Difference Formulas · 9

ANSWER

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

Sum & Difference Formulas · 12

ANSWER

$$0$$

Sum & Difference Formulas · 11

ANSWER

$$2 + \sqrt{3}$$

Sum & Difference Formulas · 14

ANSWER

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

Sum & Difference Formulas · 13

ANSWER

$$\frac{204}{325}$$

Sum & Difference Formulas · 16

ANSWER

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

Sum & Difference Formulas · 15

ANSWER

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

Sum & Difference Formulas · 17

Find the exact value: $\sin(125°)\cos(10°) + \cos(125°)\sin(10°)$

Sum & Difference Formulas · 18

A and B are acute angles with $\sin A = \frac{7}{25}$ and $\cos B = \frac{15}{17}$. Find the exact value of $\cos(A + B)$.

Sum & Difference Formulas · 19

Find the exact value: $\sin(130°)\cos(40°) - \cos(130°)\sin(40°)$

Sum & Difference Formulas · 20

A and B are acute angles with $\sin A = \frac{8}{17}$ and $\cos B = \frac{24}{25}$. Find the exact value of $\cos(A + B)$.

Sum & Difference Formulas · 21

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

Sum & Difference Formulas · 22

Find the exact value: $\cos(125°)\cos(80°) + \sin(125°)\sin(80°)$

Sum & Difference Formulas · 23

Use a sum or difference formula to find the exact value of $\sin(255°)$.

Sum & Difference Formulas · 24

Find the exact value: $\cos(140°)\cos(10°) - \sin(140°)\sin(10°)$

Sum & Difference Formulas · 18

ANSWER

$$\frac{304}{425}$$

Sum & Difference Formulas · 17

ANSWER

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

Sum & Difference Formulas · 20

ANSWER

$$\frac{304}{425}$$

Sum & Difference Formulas · 19

ANSWER

$$1$$

Sum & Difference Formulas · 22

ANSWER

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

Sum & Difference Formulas · 21

ANSWER

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

Sum & Difference Formulas · 24

ANSWER

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

Sum & Difference Formulas · 23

ANSWER

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