Task card 1 Sum & Difference Formulas

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

Task card 2 Sum & Difference Formulas

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

Task card 3 Sum & Difference Formulas

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).

Task card 4 Sum & Difference Formulas

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

Task card 5 Sum & Difference Formulas

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

Task card 6 Sum & Difference Formulas

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).

Task card 7 Sum & Difference Formulas

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

Task card 8 Sum & Difference Formulas

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

Task card 9 Sum & Difference Formulas

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

Task card 10 Sum & Difference Formulas

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

Task card 11 Sum & Difference Formulas

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

Task card 12 Sum & Difference Formulas

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

Task card 13 Sum & Difference Formulas

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

Task card 14 Sum & Difference Formulas

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

Task card 15 Sum & Difference Formulas

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

Task card 16 Sum & Difference Formulas

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

Task card 17 Sum & Difference Formulas

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

Task card 18 Sum & Difference Formulas

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

Task card 19 Sum & Difference Formulas

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

Task card 20 Sum & Difference Formulas

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

Task card 21 Sum & Difference Formulas

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

Task card 22 Sum & Difference Formulas

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

Task card 23 Sum & Difference Formulas

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

Task card 24 Sum & Difference Formulas

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

Sum & Difference Formulas Task Cards

Recording sheet · Grade 12 · Give exact answers. Write radicals like (√6 + √2)/4 or 2 - √3, and fractions in simplest form.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Sum & Difference Formulas Task Cards: Answer Key

Grade 12 · Hard

The answers online

1. $2 + \sqrt{3}$	**2.** 1	**3.** $\frac{323}{325}$
4. $\frac{\sqrt{6} + \sqrt{2}}{4}$	**5.** $\frac{\sqrt{3}}{2}$	**6.** $\frac{140}{221}$
7. $\frac{\sqrt{6} - \sqrt{2}}{4}$	**8.** 1	**9.** $\frac{\sqrt{2} - \sqrt{6}}{4}$
10. 0	**11.** $2 + \sqrt{3}$	**12.** 0
13. $\frac{204}{325}$	**14.** $-\frac{\sqrt{6} + \sqrt{2}}{4}$	**15.** $\frac{1}{2}$
16. $-\frac{\sqrt{6} + \sqrt{2}}{4}$	**17.** $\frac{\sqrt{2}}{2}$	**18.** $\frac{304}{425}$
19. 1	**20.** $\frac{304}{425}$	**21.** $\frac{\sqrt{6} - \sqrt{2}}{4}$
22. $\frac{\sqrt{2}}{2}$	**23.** $-\frac{\sqrt{6} + \sqrt{2}}{4}$	**24.** $-\frac{\sqrt{3}}{2}$