Task card 1 Sum & Difference Formulas

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

Task card 2 Sum & Difference Formulas

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

Task card 3 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 4 Sum & Difference Formulas

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

Task card 5 Sum & Difference Formulas

Find the exact value: sin(35°)cos(10°) + cos(35°)sin(10°)

Task card 6 Sum & Difference Formulas

A and B are acute angles with sin A = $\frac{5}{13}$ and cos B = $\frac{4}{5}$. Find the exact value of sin(A + B).

Task card 7 Sum & Difference Formulas

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

Task card 8 Sum & Difference Formulas

Find the exact value: sin(125°)cos(65°) - cos(125°)sin(65°)

Task card 9 Sum & Difference Formulas

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

Task card 10 Sum & Difference Formulas

Find the exact value: sin(70°)cos(25°) - cos(70°)sin(25°)

Task card 11 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 sin(A + B).

Task card 12 Sum & Difference Formulas

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

Task card 13 Sum & Difference Formulas

Find the exact value: $\sin(220°)\cos(70°) - \cos(220°)\sin(70°)$

Task card 14 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 15 Sum & Difference Formulas

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

Task card 16 Sum & Difference Formulas

Find the exact value: $\cos(130°)\cos(70°) + \sin(130°)\sin(70°)$

Task card 17 Sum & Difference Formulas

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

Task card 18 Sum & Difference Formulas

Find the exact value: $\sin(20°)\cos(70°) + \cos(20°)\sin(70°)$

Task card 19 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 20 Sum & Difference Formulas

Find the exact value: cos(85°)cos(40°) + sin(85°)sin(40°)

Task card 21 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 22 Sum & Difference Formulas

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

Task card 23 Sum & Difference Formulas

Find the exact value: cos(160°)cos(25°) + sin(160°)sin(25°)

Task card 24 Sum & Difference Formulas

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

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.

Scan to check your answers

Name: _____ Date: _____

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 · Medium

The answers online

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

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

3. $\frac{140}{221}$

4. $2+\sqrt{3}$

5. $\frac{\sqrt{2}}{2}$

6. $\frac{56}{65}$

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

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

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

10. $\frac{\sqrt{2}}{2}$

11. $\frac{297}{425}$

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

13. $\frac{1}{2}$

14. $\frac{304}{425}$

15. $2+\sqrt{3}$

16. $\frac{1}{2}$

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

18. 1

19. $\frac{253}{325}$

20. $\frac{\sqrt{2}}{2}$

21. $\frac{416}{425}$

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

23. $-\frac{\sqrt{2}}{2}$

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