Task card 1 Sum & Difference Formulas

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

Task card 2 Sum & Difference Formulas

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

Task card 3 Sum & Difference Formulas

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

Task card 4 Sum & Difference Formulas

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

Task card 5 Sum & Difference Formulas

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

Task card 6 Sum & Difference Formulas

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

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: cos(5°)cos(40°) - sin(5°)sin(40°)

Task card 9 Sum & Difference Formulas

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

Task card 10 Sum & Difference Formulas

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

Task card 11 Sum & Difference Formulas

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

Task card 12 Sum & Difference Formulas

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

Task card 13 Sum & Difference Formulas

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

Task card 14 Sum & Difference Formulas

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

Task card 15 Sum & Difference Formulas

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

Task card 16 Sum & Difference Formulas

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

Task card 17 Sum & Difference Formulas

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

Task card 18 Sum & Difference Formulas

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

Task card 19 Sum & Difference Formulas

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

Task card 20 Sum & Difference Formulas

Find the exact value:

$\sin(25°)\cos(20°) + \cos(25°)\sin(20°)$

Task card 21 Sum & Difference Formulas

Find the exact value:

$\sin(110°)\cos(20°) - \cos(110°)\sin(20°)$

Task card 22 Sum & Difference Formulas

Find the exact value:

$\sin(170°)\cos(80°) - \cos(170°)\sin(80°)$

Task card 23 Sum & Difference Formulas

Find the exact value:

$\sin(95°)\cos(50°) - \cos(95°)\sin(50°)$

Task card 24 Sum & Difference Formulas

Find the exact value:

$\sin(95°)\cos(65°) - \cos(95°)\sin(65°)$

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 · Easy

The answers online

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

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

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

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

5. 1

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

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

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

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

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

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

12. 1

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

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

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

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

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

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

19. $\frac{33}{65}$

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

21. 1

22. 1

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

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