**Task card 1** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$ in degrees.

**Task card 2** Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}(0)$ in degrees.

**Task card 3** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(1)$ in degrees.

**Task card 4** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(0)$ in degrees.

**Task card 5** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}\left(\frac{1}{2}\right)$ in degrees.

**Task card 6** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(1)$ in degrees.

**Task card 7** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(0)$ in degrees.

**Task card 8** Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}(1)$ in degrees.

**Task card 9** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(\sqrt{3})$ in degrees.

**Task card 10** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}\left(\frac{\sqrt{2}}{2}\right)$ in degrees.

**Task card 11** Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$ in degrees.

**Task card 12** Inverse Trigonometric Functions

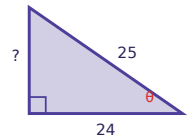
Find the exact value of $\cos^{-1}\left(\frac{1}{2}\right)$ in degrees.

**Task card 13** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(-\frac{\sqrt{3}}{3})$ in degrees.

**Task card 14** Inverse Trigonometric Functions

Find the exact value of $\sin(\cos^{-1}(\frac{24}{25}))$.

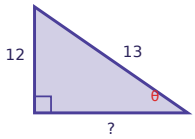



**Task card 15** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(-\frac{1}{2})$ in degrees.

**Task card 16** Inverse Trigonometric Functions

Find the exact value of $\tan(\sin^{-1}(\frac{12}{13}))$.




**Task card 17** Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}(-\frac{1}{2})$ in degrees.

**Task card 18** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\frac{\sqrt{3}}{2})$ in degrees.

**Task card 19** Inverse Trigonometric Functions

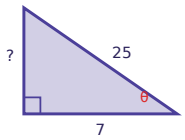
Find the exact value of $\cos^{-1}(-\frac{\sqrt{3}}{2})$ in degrees.

**Task card 20** Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(-1)$ in degrees.

**Task card 21** Inverse Trigonometric Functions

Find the exact value of $\sin(\cos^{-1}(\frac{7}{25}))$.

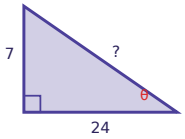



**Task card 22** Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(-1)$ in degrees.

**Task card 23** Inverse Trigonometric Functions

Find the exact value of $\cos(\tan^{-1}(\frac{7}{24}))$.




**Task card 24** Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}(-\frac{\sqrt{2}}{2})$ in degrees.

# Inverse Trigonometric Functions Task Cards

Recording sheet · Grade 12 · Give angles in degrees using the principal range: sin^-1 and tan^-1 from -90° to 90°, cos^-1 from 0° to 180°. Give other answers as exact fractions.

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 |

# Inverse Trigonometric Functions Task Cards: Answer Key

Grade 12 · Easy

The answers online

| | | |
|---|---|---|
| **1.** 30° | **2.** 90° | **3.** 45° |
| **4.** 0° | **5.** 30° | **6.** 90° |
| **7.** 0° | **8.** 0° | **9.** 60° |
| **10.** 45° | **11.** 30° | **12.** 60° |
| **13.** -30° | **14.** $\frac{7}{25}$ | **15.** -30° |
| **16.** $\frac{12}{5}$ | **17.** 120° | **18.** 60° |
| **19.** 150° | **20.** -90° | **21.** $\frac{24}{25}$ |
| **22.** -45° | **23.** $\frac{24}{25}$ | **24.** 135° |