Task card 1 Inverse Trigonometric Functions

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

Task card 2 Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\sin(330°))$ in degrees.

Task card 3 Inverse Trigonometric Functions

Find the exact value of $\cos(\sin^{-1}(-\frac{5}{13}))$.

Task card 4 Inverse Trigonometric Functions

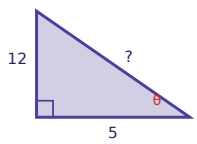
Find the exact value of $\tan^{-1}(-\frac{\sqrt{3}}{3})$ in degrees.

Task card 5 Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(\tan(120°))$ in degrees.

Task card 6 Inverse Trigonometric Functions

Find the exact value of $\cos(\tan^{-1}(\frac{12}{5}))$.



Task card 7 Inverse Trigonometric Functions

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

Task card 8 Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\sin(240°))$ in degrees.

Task card 9 Inverse Trigonometric Functions

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

Task card 10 Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(\tan(330°))$ in degrees.

Task card 11 Inverse Trigonometric Functions

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

Task card 12 Inverse Trigonometric Functions

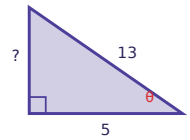
Find the exact value of $\tan^{-1}(\sqrt{3})$ in degrees.

Task card 13 Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(\tan(240°))$ in degrees.

Task card 14 Inverse Trigonometric Functions

Find the exact value of $\tan(\cos^{-1}(\frac{5}{13}))$.



Task card 15 Inverse Trigonometric Functions

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

Task card 16 Inverse Trigonometric Functions

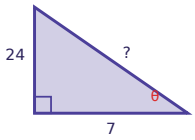
Find the exact value of $\sin^{-1}(-\frac{\sqrt{2}}{2})$ in degrees.

Task card 17 Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\sin(270°))$ in degrees.

Task card 18 Inverse Trigonometric Functions

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

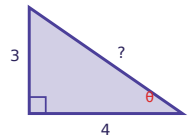


Task card 19 Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\sin(180°))$ in degrees.

Task card 20 Inverse Trigonometric Functions

Find the exact value of $\sin(\tan^{-1}(\frac{3}{4}))$.



Task card 21 Inverse Trigonometric Functions

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

Task card 22 Inverse Trigonometric Functions

Find the exact value of $\cos^{-1}(\cos(240°))$ in degrees.

Task card 23 Inverse Trigonometric Functions

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

Task card 24 Inverse Trigonometric Functions

Find the exact value of $\tan^{-1}(\tan(315°))$ 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.

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

Inverse Trigonometric Functions Task Cards: Answer Key

Grade 12 · Hard

The answers online

1. 0°	**2.** -30°	**3.** $\frac{12}{13}$
4. -30°	**5.** -60°	**6.** $\frac{5}{13}$
7. -30°	**8.** -60°	**9.** -90°
10. -30°	**11.** $-\frac{24}{7}$	**12.** 60°
13. 60°	**14.** $\frac{12}{5}$	**15.** 180°
16. -45°	**17.** -90°	**18.** $\frac{7}{25}$
19. 0°	**20.** $\frac{3}{5}$	**21.** 120°
22. 120°	**23.** 30°	**24.** -45°