Task card 1 Inverse Trigonometric Functions

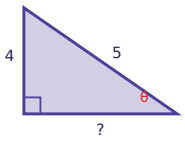
Find the exact value of $\sin^{-1}(-\frac{1}{2})$ in degrees.

Task card 2 Inverse Trigonometric Functions

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

Task card 3 Inverse Trigonometric Functions

Find the exact value of $\tan(\sin^{-1}(\frac{4}{5}))$.



Task card 4 Inverse Trigonometric Functions

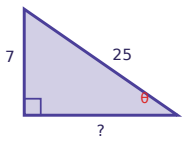
Find the exact value of $\tan^{-1}(\frac{\sqrt{3}}{3})$ in degrees.

Task card 5 Inverse Trigonometric Functions

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

Task card 6 Inverse Trigonometric Functions

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



Task card 7 Inverse Trigonometric Functions

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

Task card 8 Inverse Trigonometric Functions

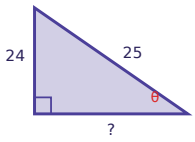
Find the exact value of $\sin^{-1}(\frac{\sqrt{3}}{2})$ in degrees.

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 $\cos(\sin^{-1}(\frac{24}{25}))$.



Task card 11 Inverse Trigonometric Functions

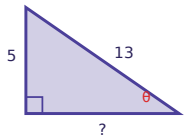
Find the exact value of $\sin^{-1}(0)$ in degrees.

Task card 12 Inverse Trigonometric Functions

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

Task card 13 Inverse Trigonometric Functions

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



Task card 14 Inverse Trigonometric Functions

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

Task card 15 Inverse Trigonometric Functions

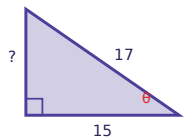
Find the exact value of $\tan^{-1}(-\frac{\sqrt{3}}{3})$ in degrees.

Task card 16 Inverse Trigonometric Functions

Find the exact value of $\sin^{-1}(\sin(135°))$ in degrees.

Task card 17 Inverse Trigonometric Functions

Find the exact value of $\sin(\cos^{-1}(\frac{15}{17}))$.



Task card 18 Inverse Trigonometric Functions

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

Task card 19 Inverse Trigonometric Functions

Find the exact value of $\cos(\tan^{-1}(\frac{8}{-15}))$.

Task card 20 Inverse Trigonometric Functions

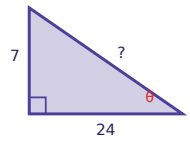
Find the exact value of $\tan^{-1}(\tan(225°))$ in degrees.

Task card 21 Inverse Trigonometric Functions

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

Task card 22 Inverse Trigonometric Functions

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

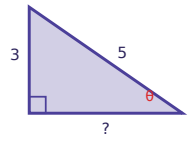


Task card 23 Inverse Trigonometric Functions

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

Task card 24 Inverse Trigonometric Functions

Find the exact value of $\cos(\sin^{-1}(\frac{3}{5}))$.



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 · Medium

The answers online

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