

WORKSHEET

Even-Odd Identities

Unsolved with Answer key



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Even-Odd Identities

Q 1. Simplify $\cos(-75^\circ)$.

Q 2. Evaluate $\sin(-45^\circ)$.

Q 3. Find $\cos(-30^\circ) + \sin(-60^\circ)$.

Q 4. Simplify $\sin(-90^\circ)$.

Q 5. Evaluate $\cos(-120^\circ)$.

Q 6. Prove that $\cos(-x) - \cos(x) = 0$.

Q 7. Simplify $\cos(-180^\circ)$.

Q 8. Evaluate $\sin(-90^\circ) + \cos(-90^\circ)$.

Answer Key

Even-Odd Identities

1. $\cos(-75^\circ) = (\sqrt{6} - \sqrt{2})/4$
2. $\sin(-45^\circ) = -1/\sqrt{2}$
3. $\cos(-30^\circ) + \sin(-60^\circ) = 0$
4. $\sin(-90^\circ) = -1$
5. $\cos(-120^\circ) = -1/2$
6. True for all x .
7. $\cos(-180^\circ) = -1$
8. $\sin(-90^\circ) + \cos(-90^\circ) = -1$