

1. Compute $\sin \theta$, $\cos \theta$ and $\tan \theta$ for all the reference angles in the first quadrant.
2. Graph $2 \sin(2x + 2)$.
3. Solve the inequality $|x^2 - 4| > 0$ and display your answer on a number line.
4. Graph $x + \sin x$.
5. Simplify $e^{\ln x}$.
6. What is the domain of $e^{\ln x}$? Graph the function.
7. Simplify $\sin(\arccos(\sin(\arctan x)))$.
8. Complete the square in the function $f(x) = 4x^2 + 6x + 1$.
9. Find the inverse of the function $f(x) = e^{x^2}$.
10. Find functions f, g and h such that $f \circ g \circ h(x) = \sin(x^2 + e^{|x+2|})$.

11. What is the range of the inverse of the function $f(x) = x^5 + x^4 + x^3 + x^2 + x + 12$ for $0 \leq x \leq 25$?