

Present neatly on separate paper. Justify for full credit. No Calculators.

Name _____ Score _____ ~15 minutes

1.

Find all values of x such that $\sin 2x = \sin x$ and $0 \leq x \leq 2\pi$.

2.

Find the domain of the function.

(a) $f(x) = \frac{2x + 1}{x^2 + x - 2}$ (b) $g(x) = \frac{\sqrt[3]{x}}{x^2 + 1}$ (c) $h(x) = \sqrt{4 - x} + \sqrt{x^2 - 1}$

3.

Sketch the graph of the function $y = 1 + \sin 2x$ without using a calculator.

no answers on this page