

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

Name _____ Score _____ ~15 minutes

1.

Simplify.

a) $4\sin 2x \cos 2x$ b) $1 - \sec^2 x$ c) $\frac{1 + \cos 2x}{2}$ d) $\cos^2 x - \sin^2 x$ e) $\cos^2 x + \sin^2 x$

2.

Complete the following trig identities.

a) $\sin^2 x + \cos^2 x =$ b) $\frac{1}{\sin x} =$ c) $\sin^4 x - \cos^4 x =$ d) $\tan^2 x + 1 =$ e) $\sin 2x =$

3.

Solve

a) $\log_2 64 =$ b) $\log_6 (36 \times 6^{-7})$ c) If $\log w = \frac{1}{2} \log x + \log y$, then $w =$

4.

Graph and label all asymptotes of $y = \frac{2x}{x-4}$

no answers on this page