

$$\sin 2A = 2 \sin A \cos A$$

AP Calculus AB

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Quiz: 2

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

Name _____ Score _____ ~15 minutes

1. Simplify. $2 \sin 2x \cos 2x = 2 \sin 4x$

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. $-\tan^2 x$ $\cos 2x = 1$

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 $\csc x$ $\sec^2 x$ $2 \sin x \cos x$

a) $\log_2 64 = 6$ b) $\log_6 (36 \times 6^{-7}) = -5$ c) If $\log w = \frac{1}{2} \log x + \log y$, then $w =$

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

$$= 2 \sin 4x$$

$$\frac{\cos^2 x + \sin^2 x}{\cos^2 x \cos^2 x} = \frac{1}{\cos^2 x}$$

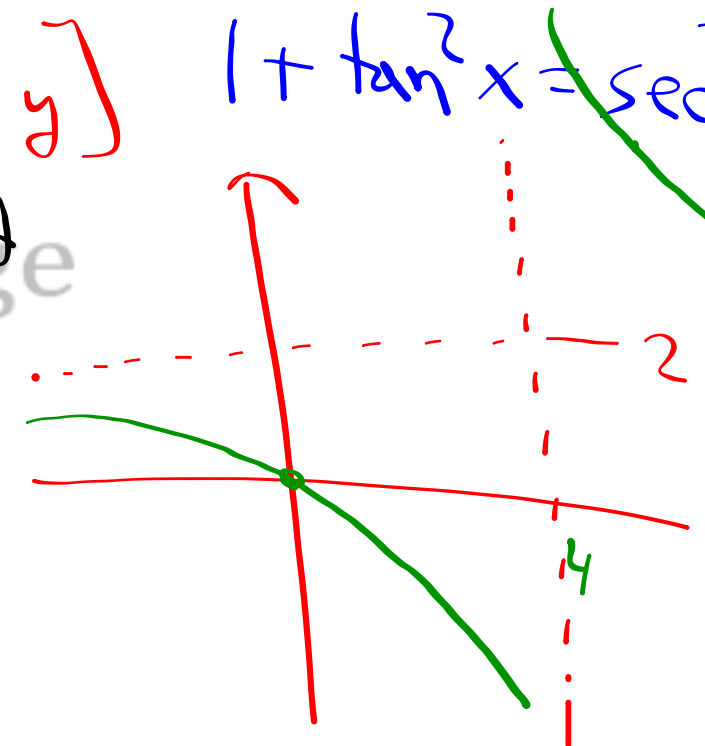
$$\log w = \log(\sqrt{x} \cdot y)$$

$$w = \sqrt{x} y$$

$$1 + \tan^2 x = \sec^2 x$$

$$y = \frac{2x}{x-4}$$

D: $x \neq 4$ HA: $y = 2$
VA: $x = 4$



no answers on this page