

Quiz 1

Name:

Grade: 10/10

1. Factor the following polynomial: $x^2 + x - 20$

2.
$$\frac{\csc^2(\sin x) + \sec^2(\sin x)}{\sec^2(\sin x) \cdot \csc^2(\sin x)} =$$

3. $e^{\log 7} =$

4. Evaluate the following limit at $x = 2$: $\lim_{h \rightarrow 0} \frac{(x+h)^2 - x^2}{h}$

5. $\frac{d}{dx} [x^{2005}] =$

6. $\frac{d}{dx} [\cos(x^{2005})] =$

7. $\frac{A}{B} + \frac{C}{D} =$

8. Find the equation of the line through the points $(2, 3)$ and $(7, 21)$.

9. True or False: My donkey likes crunchy green bananas.