# Data Science Math Skills

Here's the complete list of exercises you need to deliver:

# Week 3

- \* This is about that derivative stuff Practice quiz on Tangent Lines to Functions (2 questions)
- \* Fast Growth, Slow Growth Practice quiz on Exponents and Logarithms (12 questions)
- \* Fast Growth, Slow Growth Graded quiz on Tangent Lines to Functions, Exponents and Logarithms (13 questions)

This is about that derivative stuff

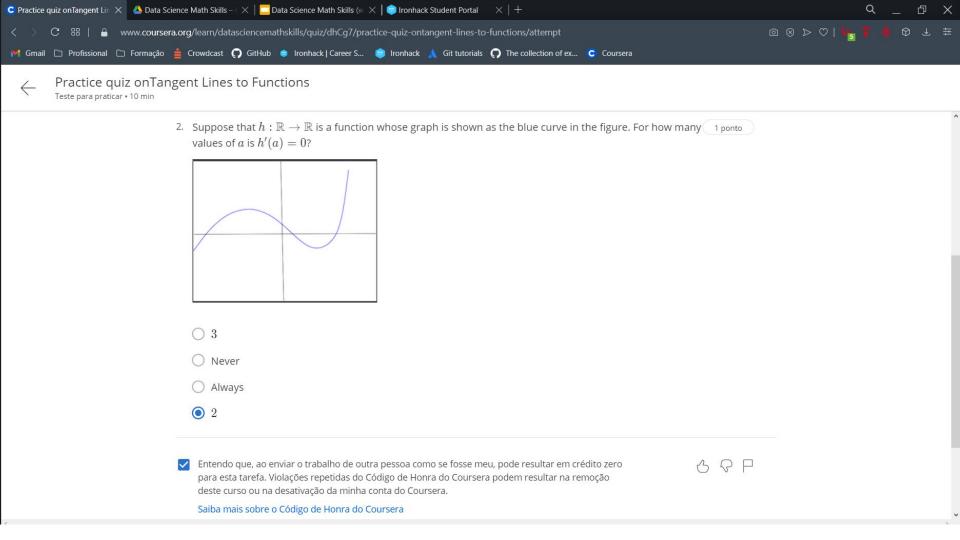
## Practice quiz on Tangent Lines to Functions Teste para praticar • 10 min

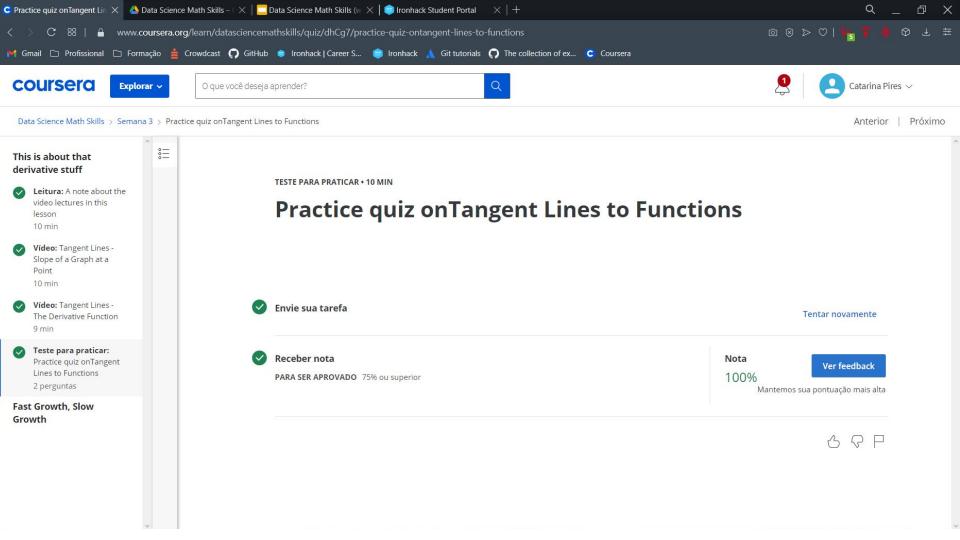
## **Practice quiz on Tangent Lines to Functions**

**NÚMERO TOTAL DE PONTOS 2** 

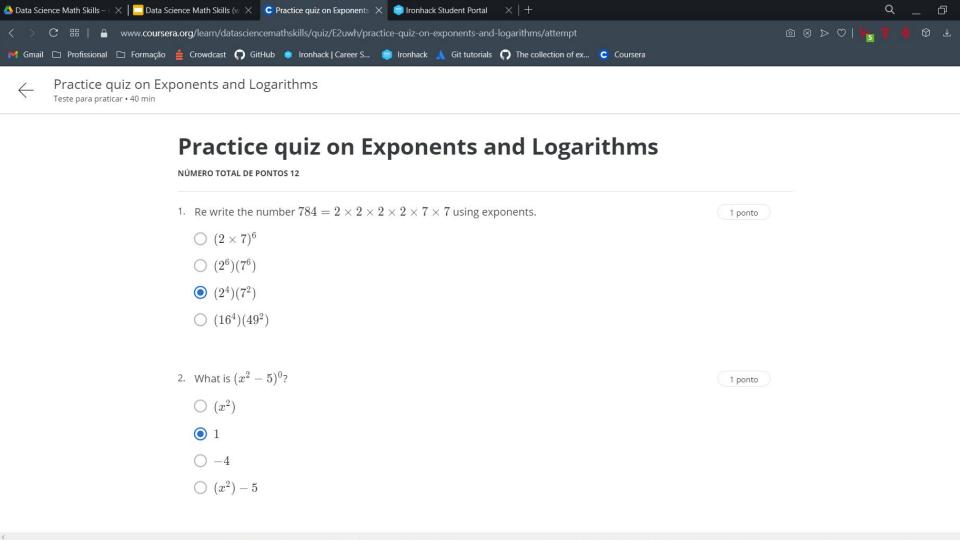
- 1. Suppose that  $f:\mathbb{R} \to \mathbb{R}$  is a function. Which of the following expressions corresponds to f'(2), the slope ( 1 ponto of the tangent line to the graph of f(x) at x = 2?
  - f'(2) = 2

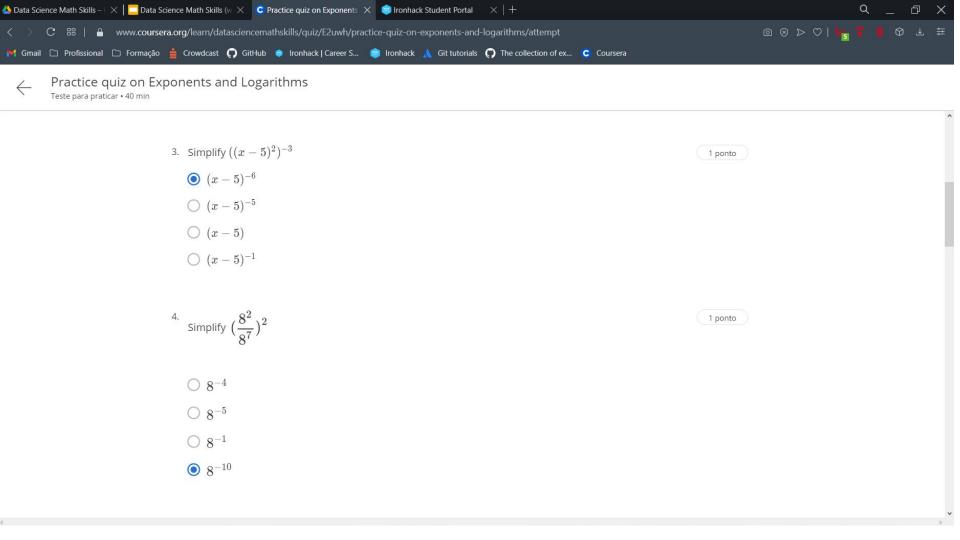
  - $\bigcap f'(2) = \lim_{h \to 0} \frac{f(a+h) f(a)}{h}$
  - $\bigcap f'(2) = mx + b$
- 2. Suppose that  $h:\mathbb{R}\to\mathbb{R}$  is a function whose graph is shown as the blue curve in the figure. For how many 1 ponto values of a is h'(a) = 0?

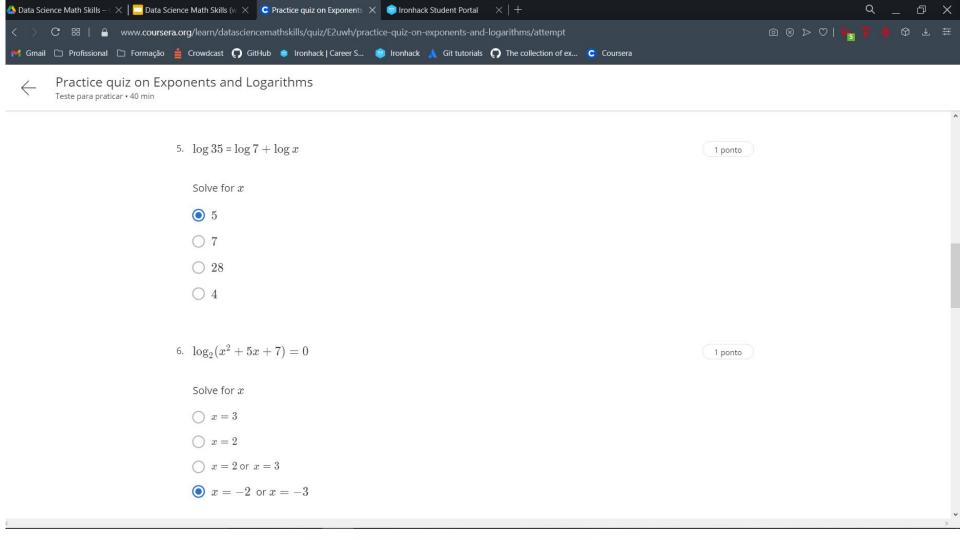


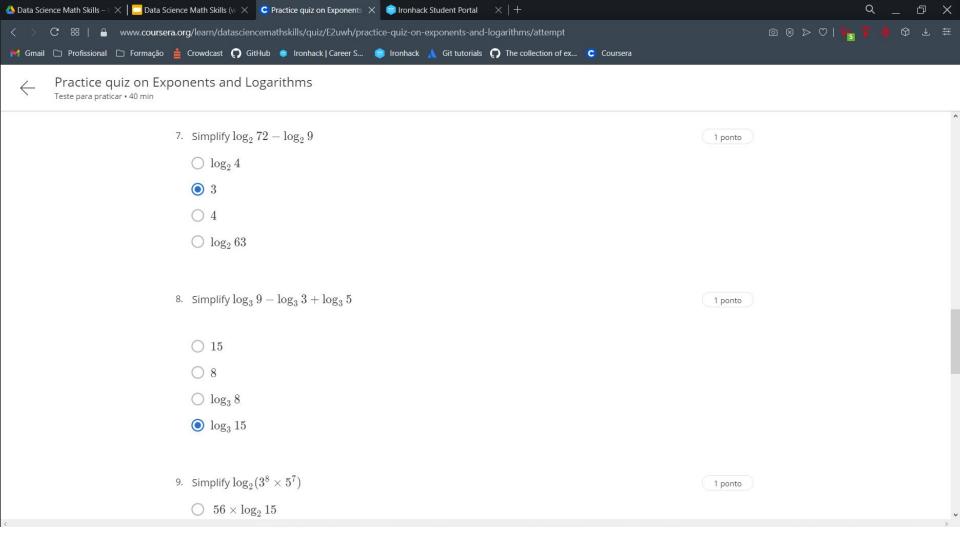


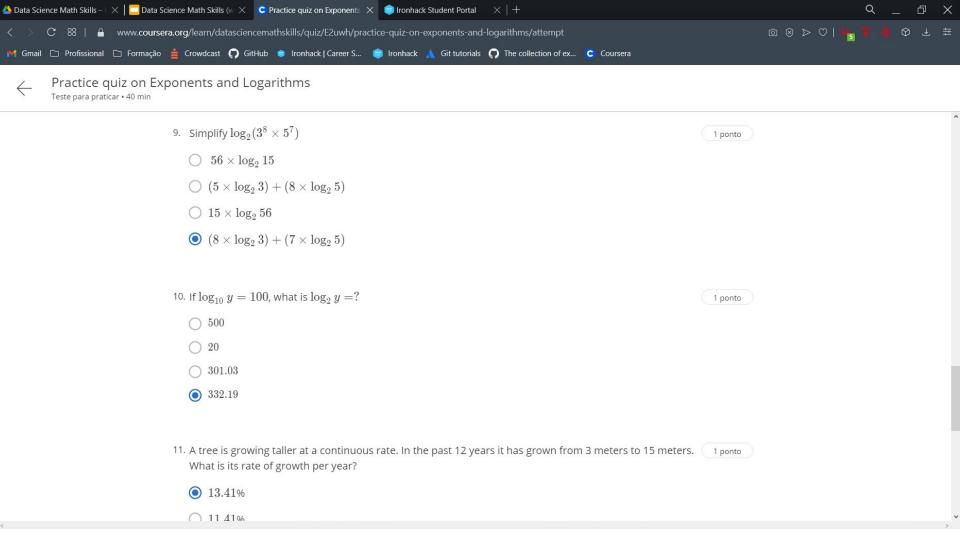
Fast Growth, Slow Growth

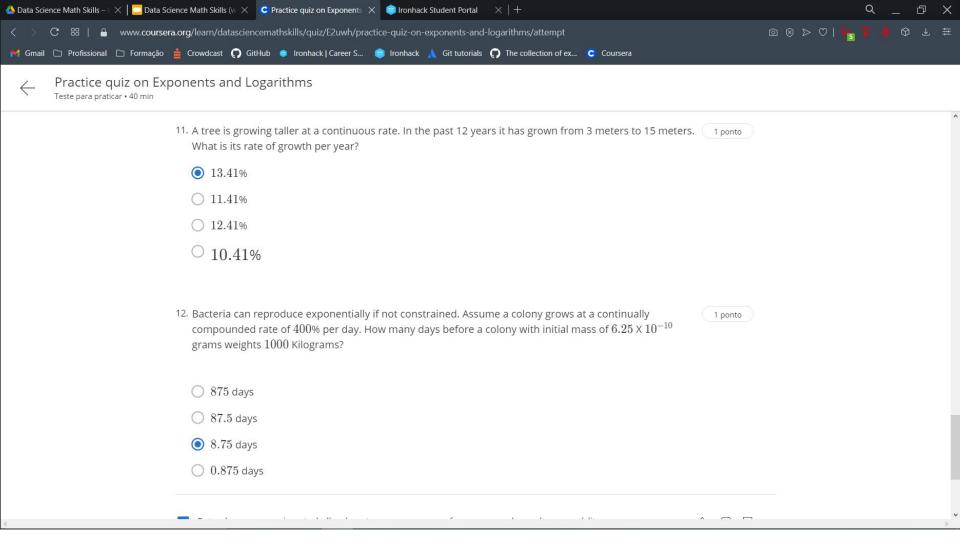


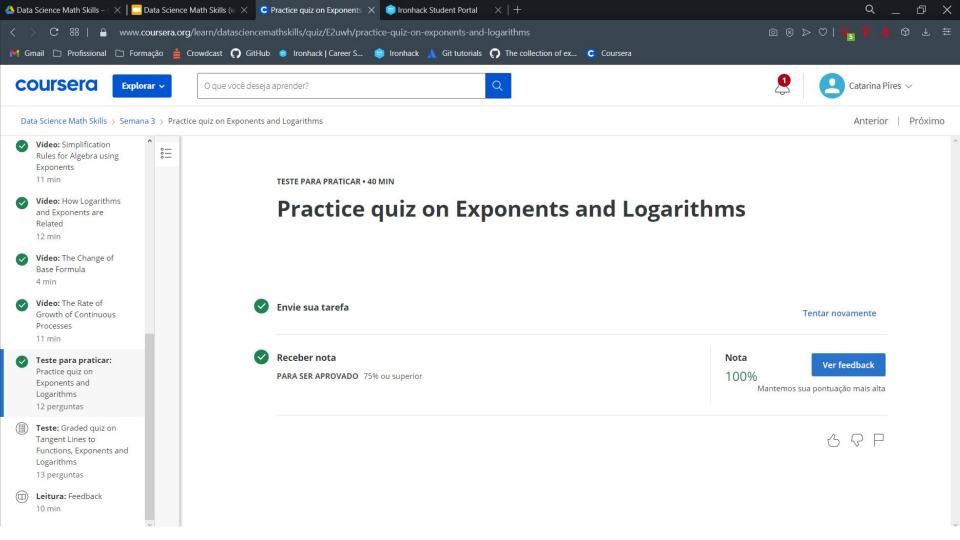












Fast Growth, Slow Growth

