```
format long
disp("3.1.31 Finding slope of a point")
disp("For the function: ")
syms x
f = (x^2) / (1 + sqrt(x));
disp("f(x) = ")
disp(f)
disp("The derivative is: ")
fprime = diff(f);
disp("f'(x) = ")
disp(fprime)
disp("If we replace x with 2 and round to 5 decimals")
disp("we get our answer")
fprime = @(x) (2*x) / (x^{(1/2)} + 1) - x^{(3/2)}/(2*(x^{(1/2)} + 1)^2);
disp(round(fprime(2),5))
3.1.31 Finding slope of a point
For the function:
f(x) =
x^2/(x^1/2) + 1
The derivative is:
f'(x) =
(2*x)/(x^{(1/2)} + 1) - x^{(3/2)}/(2*(x^{(1/2)} + 1)^2)
If we replace x with 2 and round to 5 decimals
we get our answer
   1.414210000000000
```

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