

handcalcs

September 20, 2020

[2]: 1.0

isso não é um input! isso é um markdown.

$$peso_{andre} = 73.000 \text{ kg (pesei ontem)}$$

$$peso_{vitoria} = 58.000 \text{ kg}$$

$$altura_{andre} = 1.750 \text{ m}$$

$$altura_{vitoria} = 1.580 \text{ m}$$

$$IMC_{andre} = \frac{peso_{andre}}{altura_{andre}} = \frac{73.000 \text{ kg}}{1.750 \text{ m}} = 41.714 \text{ kg} \cdot \text{m}^{-1}$$

```
↳ -----
```

```
↳ NameError                                Traceback (most recent call↳
↳ last)
```

```
<ipython-input-4-9380ca62b029> in <module>
    1 # short
    2
----> 3 g = integrate.quad(f, 11, 12)
```

```
NameError: name 'f' is not defined
```

```
↳ -----
```

```
↳ KeyError                                Traceback (most recent call↳
↳ last)
```

```
<ipython-input-4-76e4fd08c2bc> in <module>
```

```

----> 1 get_ipython().run_cell_magic('render', '', '# short\n\ng = integrate.
↳quad(f, 11, 12)\n')

```

```

↳
~\AppData\Roaming\Python\Python38\site-packages\IPython\core\interactiveshell.
↳py in run_cell_magic(self, magic_name, line, cell)
    2369         with self.builtin_trap:
    2370             args = (magic_arg_s, cell)
-> 2371             result = fn(*args, **kwargs)
    2372         return result
    2373

```

```

~\anaconda3\lib\site-packages\handcalcs\render.py in render(line, cell)
    48     # Do the handcalc conversion
    49     renderer = hand.LatexRenderer(cell, var_dict)
---> 50     latex_code = renderer.render()
    51
    52     # Display, but not as an "output"

```

```

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in render(self)
    151
    152     def render(self):
--> 153         return latex(self.source, self.results, self.precision)
    154
    155

```

```

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in
↳latex(raw_python_source, calculated_results, precision)
    162     cell = categorize_raw_cell(source, calculated_results)
    163     cell = categorize_lines(cell)
--> 164     cell = convert_cell(cell)
    165     cell = format_cell(cell)
    166     return cell.latex_code

```

```

~\anaconda3\lib\functools.py in wrapper(*args, **kw)
    873         '1 positional argument')
    874
--> 875     return dispatch(args[0].__class__)(*args, **kw)
    876
    877     funcname = getattr(func, '__name__', 'singledispatch function')

```

```

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in
↳convert_calc_cell(cell)
    449     incoming = deque([])
    450     for line in outgoing:
--> 451         incoming.append(convert_line(line, calculated_results))
    452     cell.lines = incoming
    453     return cell

~\anaconda3\lib\functools.py in wrapper(*args, **kw)
    873         '1 positional argument')
    874
--> 875     return dispatch(args[0].__class__)(*args, **kw)
    876
    877     funcname = getattr(func, '__name__', 'singledispatch function')

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in
↳convert_calc(line, calculated_results)
    513         result,
    514     ) = line.line # Unpack deque of form [[calc_line, ...], ['=',
↳'result']]
--> 515     symbolic_portion, numeric_portion = swap_calculation(line_deque,
↳calculated_results)
    516     line.line = symbolic_portion + numeric_portion + result
    517     return line

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in
↳swap_calculation(calculation, calc_results)
    1325     """Returns the python code elements in the deque converted into
    1326     latex code elements in the deque"""
-> 1327     calc_w_integrals_preswapped = swap_integrals(calculation,
↳calc_results)
    1328     symbolic_portion =
↳swap_symbolic_calcs(calc_w_integrals_preswapped)
    1329     calc_drop_decl = deque(

~\anaconda3\lib\site-packages\handcalcs\handcalcs.py in
↳swap_integrals(calculation, calc_results)
    1394         skip_next = True
    1395         function_name = next_item[0]
-> 1396         function = calc_results[function_name]
    1397         function_source = (
    1398             inspect.getsource(function).split("\n")[1].
↳replace("return", "")

```

KeyError: 'f'

```
\[
\begin{aligned}
g &= \int_0^{12} \left( x \right)^2 + 10 \cdot x \, dx = \int_0^{12} \left( x \right)^2 + 10 \cdot x \, dx = (1295.9999999999995, \\
&1.4388490399142024e-11)
\end{aligned}
\]
```

$$\Sigma = \text{sum}(x) = \text{sum}([1, 2, 3]) = 6$$

$$Len = \text{len}(x) = \text{len}([1, 2, 3]) = 3$$

$$Mean = \frac{\Sigma}{Len} = \frac{6}{3} = 2.0$$