Math-08 Homework #2

Reading

• Text book section 0.2.

Problems

- 1). Let $A = \{x \in \mathbb{R} \mid -1 \le x \le 2\}$
 - a). Is the statement $\forall\,a\in A,a<2$ true or false? Why? (Hint: if false, state a counterexample)
 - b). Is the statement $\exists a \in A, a \leq -1$ true or false? Why?
- 2). Explain why $\frac{\cancel{x}+y}{\cancel{x}}=1+y$ is incorrect? What should it equal?
- 3). Let x=y-1. Explain why y-x=y-y-1=-1 is incorrect? What should it equal?
- 4). Type the following equation into your calculator to obtain an answer. You must type it in all at once—not in pieces. Turn in a screenshot showing how you entered it and your answer:

$$\frac{1 - \left(2 + \frac{3}{2}\right)}{\frac{2}{3} - \frac{4}{5}}$$