Quiz 2
Total Points possible: 10
Math 12: Spring 2025

Name: key

Instructions: Each question is worth 3 points but the last question. Question 3 is worth 1 point. **Show all your work in order to receive credit**.

Problem 1. Simlify the fractions

(a) $-\frac{5}{4}+1$ note $1=\frac{1}{1}$ so

$= \frac{-5}{4}+\frac{1}{1}$ want the bottoms to be the same

$= -\frac{5}{4}+\frac{1}{1}\cdot\frac{4}{4}$ mulitply by 1. Notice $\frac{4}{4}=1$,

$= -\frac{5}{4}+\frac{4}{4}$

$= -\frac{1}{4}$

(b) $\frac{2}{3}-\frac{11}{2}\div\frac{4}{7}$ change to $\cdot$ "multiplication" — flip fraction. — keep

multiplication/ division

Do fraction first PEMDAS

$= \frac{2}{3}-\frac{11}{2}\cdot\frac{7}{4}$ mulitply striaght across

$= \frac{2}{3}-\frac{11\cdot 7}{2\cdot 4}$

$= \frac{2}{3}-\frac{77}{8}$ get common denominator

$= \frac{2}{3}\cdot\frac{8}{8}-\frac{77}{8}\cdot\frac{3}{3}$

$= \frac{16}{24}-\frac{231}{24}$ bottoms are the same, now you can add the top. Do not add numbers in the denominator.

$= \frac{16-231}{24}$

$= -\frac{215}{24}$

Problem 2. Solve for the variable x.

$y = 7x - 1003$ add 1003 to both sides

$+1003 \quad +1003$

$y + 1003 = 7x$ Divide both sides by 7

$\frac{y+1003}{7} = \frac{7x}{7}$

$\frac{y+1003}{7} = x$

Problem 3. Out of a 1 to 5. 5 being the highest, how confident are you in this quiz? Did you do any preparation for this quiz? If so how long did you spend.