Name:	(AT
MATH 101 Fall 2023 HW 2: Due 09/13	"Now we're going to do the most human thing of all: attempt something futile with a ton of unearned confidence and fail spectacularly!"
	– Michael, The Good Place

Problem 1. (10pt) Showing all your work, reduce the following rational numbers:

- (a) $\frac{10}{140}$
- (b) $\frac{154}{33}$
- (c) $\frac{19}{17}$
- (d) $\frac{36}{18}$
- (e) $\frac{35}{45}$

Problem 2. (10pt) Showing all your work and simplifying as much as possible, compute the following:

- (a) $\frac{7}{2} \frac{2}{5}$
- (b) $\frac{3}{4} + \frac{11}{12}$
- (c) $\frac{11}{25} + \frac{8}{20}$
- (d) $-\frac{6}{5} + \frac{7}{11}$
- (e) $\frac{1}{3} \frac{5}{7} + \frac{13}{12}$

Problem 3. (10pt) Showing all your work and simplifying as much as possible, compute the following:

- (a) $\frac{\frac{5}{6}}{\frac{15}{12}}$
- (b) $\frac{\frac{11}{7}}{\frac{33}{35}}$

- (c) $\frac{\frac{3}{4}}{\frac{8}{9}}$ (d) $\frac{\frac{25}{18}}{\frac{6}{15}}$ (e) $\frac{\frac{5}{7}}{\frac{11}{13}}$

Problem 4. (10pt) Convert the following given mixed numbers to an improper fraction or convert the given improper fraction to a mixed number:

- (a) $5\frac{3}{5}$
- (b) $-\frac{19}{5}$
- (c) $11\frac{2}{3}$
- (d) $\frac{56}{11}$
- (e) $-2\frac{5}{6}$