

Math 1100
Quiz 1
NO CALCULATORS

Print Name: _____ Circle Section Time: 10 or 11

1. [3 points] Express as a single fraction in reduced form.
a) $1/3 - 1/6$ b) $3/5 - 2/7$ c) $9/2 \div 3/4$

2. [3 points] Compute.
a) 3.10×0.30 b) $13 \div 3$ c) 38% of 200

3. [2 points] Draw the interval of the real number line.
a) $[-3, 8)$ b) $(4, \infty)$

4. [3 points] Factor $x^2 + 3x + 2$.

5. [5 points] Multiply $(2x + 1)(x - 1)$.

6. [2 points] Solve $3x - 2 = 3 - x$ for x .

7. [7 points] Multiply $(2x - 1)^3$.

8. [5 points] Solve $1/(2x + 3) = 5$ for x .

9. [2 points] Simplify $\left(\frac{a^2b^{-3}}{b^5}\right)^{-4}$, until there are no negative exponents.

10. [3 points] Give numerical examples that show that each statement below is not true in general.

a) $(x + y)^2 = x^2 + y^2$

b) $\frac{1}{x + y} = \frac{1}{x} + \frac{1}{y}$

c) $\sqrt{x + y} = \sqrt{x} + \sqrt{y}$

Remember, these statements are not true in general.