

**MATH R3 PROF. ALFRED DOLICH TEST #1
REVIEW**

Please do the following 10 problems. Please show all of your work for ANY credit and please write neatly. You may not use a calculator on this test.

(1) Write the following fractions as a decimal:

(a) $\frac{16}{99}$

(b) $\frac{1}{7}$

(c) $\frac{3}{100}$

(2) Determine whether the following three decimals represent a rational or irrational number:

(a) $69.81811811181111\dots$

(b) $-6.3\bar{7}$

(c) $.12335$

- (3) Compute:
- (a) $-19 - 8$
 - (b) $-21 + (-6)$
 - (c) $-1 - (-7)$.

- (4) Compute:
- (a) $-72 \div (-9)$
 - (b) $9 \div (-3)$
 - (c) -8×10 .

(5) Compute:

(a) $\frac{1}{12} + \frac{5}{30}$

(b) $-\frac{1}{5} + (-\frac{1}{7})$

(c) $-7 - \frac{9}{2}$

(6) Compute:

(a) $-\frac{1}{9} \div (-\frac{7}{8})$

(b) $\frac{2}{11} \times \frac{2}{3}$

(c) $\frac{7}{12} \times (-8)$.

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(7) Both truncate and round to three decimal places:

(a) 17.99999.

(b) -14.35678

(8) Compute:

(a) $\frac{(-1) + 15 \div 3}{3^2 - 5}$.

(b) $1 + 2 \times 3 \div 6 - 1$.

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(9) For each of the following pairs of numbers indicate which of the two is further left on the number line.

(a) $-\frac{12}{13}$, .01

(b) -7.12 , -1.23

(c) -20 , 0

(10) Find the additive and multiplicative inverses of:

(a) $\frac{2}{3}$.

(b) 1

(c) -8 .

- (11) Compute:
- (a) The distance of $(-16 + 2)$ from 0.
 - (b) The distance between $\frac{1}{4}$ and -5 .
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- (12) (a) Write an English phrase equivalent to $7x - 3 = 5 - y$.
- (b) Write “The product of 7 and x is the quotient of z and 3”.

- (13) (a) State which property of real numbers is being used:
 $3 + (6 + 7) = (3 + 6) + 7$.
- (b) State the commutative property for multiplication.