Review for Exam 1
MA 098 ZNB
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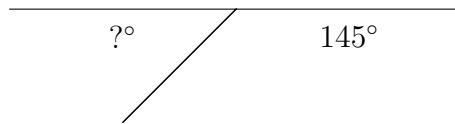6 February 2013

1) Add and simplify: $\dfrac{1}{9} + \dfrac{1}{12} =$

2) Subtract: $2\dfrac{1}{2} - \dfrac{1}{4} =$

3) Use the distributive property to rewrite $-7(-2x + 1)$ without parentheses.

4) Write the prime factorization of 315.

5) Find the unknown angle:

?°   145°

6) Multiply: $\dfrac{3}{2} \times \dfrac{7}{6} =$

7) Evaluate: $\left(\dfrac{1}{5}\right)^2 =$

8) Find the area of a rectangle whose length is $\dfrac{1}{13}$ and whose width is $\dfrac{13}{4}$.

9) Subtract 8 from 2.

10) Find the perimeter and area of a rectangle with length 7 and width 2. (On the exam, you will be given the formulae for the area and perimeter of a rectangle.)

11) Simplify the expression: $4.4s - 2 - 4.4s + 3$.

12) Subtract: $12 - (-17) =$

13) Simplify by dividing the numerator and denominator: $\dfrac{3}{3} =$

14) Perform the operation using order of operations: $4 \times 2 - 3 \times (-1) =$

15) Write 250% as a decimal.

16) Subtract and simplify: $\dfrac{2}{4} - \dfrac{14}{20} =$

17) Evaluate: $-0.1^2 =$

18) Write the decimals 1.2, 0.12, and 0.012 as percentages.

19) Using z as your variable, write the sentence as an equation or expression: *Four fewer than twice a number is eight.*

20) Divide or indicate whether the expression is undefined: $\dfrac{0}{-17} =$

21) Simplify the expression: $2 - (-4 + 1) =$

22) Remove the parentheses and simplify: $-2(1 - 4x) + (3x - 2)(-3) =$

23) Using $<$, $>$, or $=$ to make the statement true: $\left| -3.5 \right| \underline{\ ?\ } \left| -2.5 \right|.$

24) Subtract $0 - 2.1 =$

25) Simplify the expression: $3x + 1 - 4(2 - x) =$

26) Simplify the fraction $\dfrac{66}{154}$.

27) Divide or indicate that the value is undefined: $\dfrac{-1}{0} =$

28) Simplify $-(-2.7)$.

29) Use the distributive property to simplify $2(6x + 1)$.

30) Add -7 and -1.

31) Evaluate the expression $2x - 2$ for $x = -2$.

32) Is -2 a solution to the equation $x - 2 = 2 + 3x$?

33) Round the decimal 0.125 to the nearest tenth. Round it to the nearest hundredth.