MATH 111 Sample 02 Exam 1

For each problem, show your work in the space provided.
Write your Final Answer (and the letter answer) on the Answer Sheet provided.

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1. Graph the numbers –2, 2, –1 and –8 on a number line.

2. Find: $\dfrac{3}{5} - 3\left(\dfrac{6}{7} + 4\right)$

3. Subtract: $9 - 12$ [A] 3   [B] –3   [C] –21   [D] 21

4. Simplify: $-7.8 - (-2.1) + 7.4$

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5. Classify $\sqrt{6}$ as rational or irrational.

6. Simplify: -9^2

7. Add: $2 + (-15)$ [A] 13   [B] 17   [C] −13   [D] −17

8. Divide: $1\frac{1}{5} \div 1\frac{1}{3}$ [A] $1\frac{1}{2}$ [B] $2\frac{1}{2}$ [C] $\frac{9}{10}$ [D] $\frac{7}{8}$

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9. Simplify: $-(-5) - 7(8 - 2)$

10. Find the least common multiple of 14, 22, and 176.

    [A] 154   [B] 2464   [C] 1232   [D] 616

11. Jessica's neighborhood has a community garden. Jessica knows the width of the garden is 19 ft and the area is 665 ft^2. How many feet of fencing will she need to enclose the garden?

12. Solve: $3x - 6 = 24$

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13. Solve for $t : 2 = t - 5s$

   [A] $t = 2 + 5s$ [B] $t = 2 - s + 5$ [C] $t = \dfrac{2 - s}{5}$ [D] $t = \dfrac{-2 + s}{5}$

Solve:

14. $9 = 8(x + 7) - 2x$ [A] $-\dfrac{1}{3}$ [B] $-7\dfrac{5}{6}$ [C] $7\dfrac{5}{6}$ [D] $\dfrac{1}{3}$

15. $x - 16 = 33$ [A] 49   [B] –17   [C] –49   [D] 17

16. Simplify: $3x - 4(x + 1) - 2(x + 3)$

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17. Solve: $9x - 5 = 76$ [A] -62 [B] 0 [C] 9 [D] 1

18. Combine like terms: $-3xy^4 - (-8xy^4)$

   [A] $-5xy^4$ [B] $-11xy^4$ [C] $11xy^4$ [D] $5xy^4$

19. Solve: $\dfrac{1}{8}b - \dfrac{1}{24} + \dfrac{1}{2}b = \dfrac{1}{2} + b$ [A] $-\dfrac{11}{9}$ [B] $\dfrac{11}{9}$ [C] $-\dfrac{13}{9}$ [D] $\dfrac{13}{9}$

20. Evaluate $(x + y)$ if $x = -6$ and $y = -2$.   [A] 8 [B] 4 [C] -4 [D] -8

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21. When a number is increased by 35, the result is −31. Find the number.

   [A] 4   [B] 66   [C] −66   [D] −4

22. Simplify: $8x - 7y - 2x - 4y$

   [A] $10x + 3y$ [B] $6x + 3y$ [C] $6x - 11y$ [D] $10x - 11y$

23. Name the quadrant or axis containing the point (3, −4).

24. Find the equation in standard form of the circle with center (1, −5) and radius of 5.

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25. Sketch the graph of $(x-2)^2 + (y+2)^2 = 4$.

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[1] _____

[2] _____

[3] _____

[4] _____

[5] _____

[6] _____

[7] _____

[8] _____

[9] _____

[10] _____

[11] _____

[12] _____

[13] _____

[14] _____

[15] _____

[16] _____

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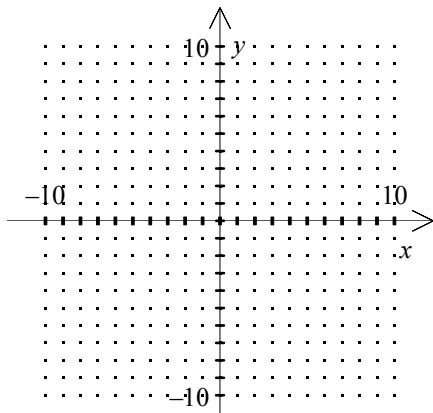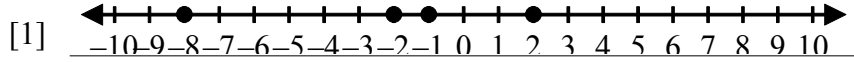
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[17] _____

[18] _____

[19] _____

[20] _____

[21] _____

[22] _____

[23] _____

[24] _____

[25] _____

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[1]

$$-10\ -9\ -8\ -7\ -6\ -5\ -4\ -3\ -2\ -1\ \ 0\ \ 1\ \ 2\ \ 3\ \ 4\ \ 5\ \ 6\ \ 7\ \ 8\ \ 9\ \ 10$$

[2] $-13\dfrac{34}{35}$

[3] [B]

[4] 1.7

[5] irrational

[6] –81

[7] [C]

[8] [C]

[9] –37

[10] [C]

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[11] 108 ft _____

[12] 10 _____

[13] [A] _____

[14] [B] _____

[15] [A] _____

[16] $-3x - 10$ _____

[17] [C] _____

[18] [D] _____

[19] [C] _____

[20] [D] _____

[21] [C] _____

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[22] [C]_____

[23] quadrant IV _____

[24] $(x-1)^2 + (y+5)^2 = 25$ _____

[25]