

## MATH 111 Sample 01 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. Find the additive inverse of  $-5.9$ .

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

3. Graph the numbers 3,  $-3$ , 6 and  $-2$  on a number line.

4. Write three subsets of  $A = \{21, 28, 35, 42, 49, 56\}$ .

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5. Simplify:  $[6 \cdot (5 + 6)] + 8$       [A] 114      [B] 44      [C] 106      [D] 74

6. Divide:  $\frac{4}{9} \div \left(-\frac{1}{27}\right)$

7. Find the additive inverse (opposite) of  $\frac{4}{13}$ .

[A]  $-\frac{13}{4}$

[B]  $\left|\frac{4}{13}\right|$

[C]  $-\frac{4}{13}$

[D]  $\frac{13}{4}$

8. Find the least common multiple of 22, 26, and 832.

[A] 4576

[B] 9152

[C] 18304

[D] 286

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9. Multiply:  $\frac{6}{35} \cdot \frac{25}{27}$

10. Given  $A = \{4,6,8,10,12\}$  and  $B = \{4,6,8,12\}$ , which of the following statements is true?  
[A]  $B \in A$       [B]  $A \subset B$       [C]  $B \subset A$       [D]  $A \in B$

11. Solve:  $\frac{x}{4} - \frac{x}{5} = 2$       [A] 1      [B] 20      [C]  $4\frac{4}{9}$       [D] 40

12. Write an expression to represent the following:  
“the sum of 3 times  $u$  and  $v$ ”  
[A]  $3u + 3v$       [B]  $(3 + u)v$       [C]  $3u + v$       [D]  $3(u + v)$

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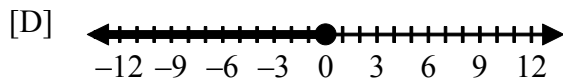
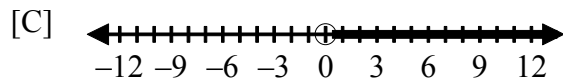
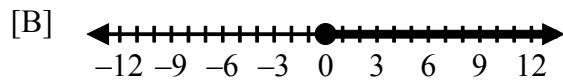
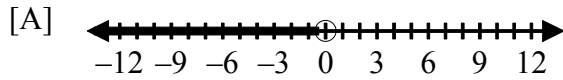
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13. Solve:  $3x + 7 = x - 1$       [A] 4      [B]  $\frac{1}{4}$       [C] -4      [D]  $-\frac{1}{4}$

Graph:

14.  $x + 2 \geq 2$



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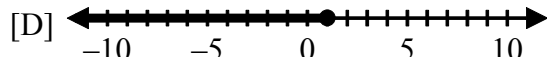
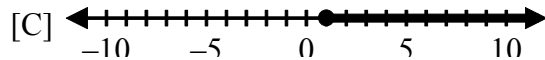
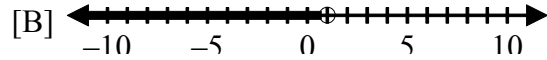
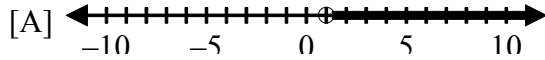
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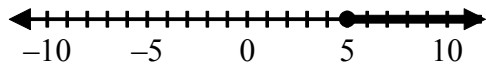
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Graph:

15.  $x > 1$



16. Which inequality describes the graph?



[A]  $m < 5$

[B]  $m \geq 5$

[C]  $m \leq 5$

[D]  $m > 5$

17. Solve:  $-\frac{x}{2} = 8$

[A] 16

[B] -4

[C] 4

[D] -16

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18. Which of the following expressions represents "the product of a number and 24"?

[A]  $x + 24$

[B]  $x \div 24$

[C]  $x \cdot 24$

[D]  $x - 24$

19. Solve:  $3x - 12 > -15$

[A]  $x < -1$

[B]  $x > -1$

[C]  $x < -6$

[D]  $x > -6$

20. Evaluate  $\frac{y}{4x} - z$  for  $x = 3$ ,  $y = 36$ , and  $z = 2$ .

[A] 1

[B] -3

[C] 5

[D] -7

21. Simplify:  $5x - 7y - 4x + 5y$

[A]  $9x - 2y$

[B]  $9x + 12y$

[C]  $x + 12y$

[D]  $x - 2y$

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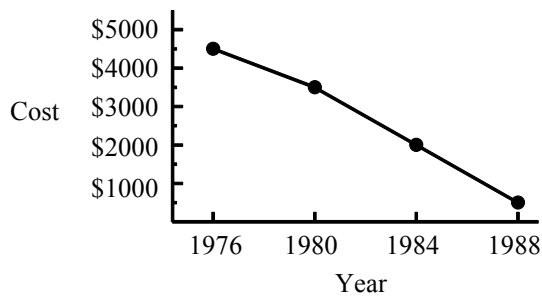
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22. Solve:  $5x - 3 = -38$

23. The decreasing average cost of a computer is shown in the accompanying graph. Estimate the ratio of rise to run for the line segments between 1980 and 1984 and between 1984 and 1988.



[A]  $-1375$  and  $-625$

[B]  $1375$  and  $625$

[C]  $-400$  and  $-300$

[D]  $-375$  and  $-375$

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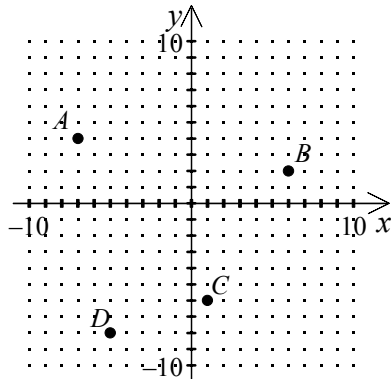
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24. Name the coordinates of the points  $A$ ,  $B$ ,  $C$ , and  $D$ .



25. Graph the point  $Q(-3, -4)$ .



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[1] \_\_\_\_\_

[2] \_\_\_\_\_

[3] \_\_\_\_\_

[4] \_\_\_\_\_

[5] \_\_\_\_\_

[6] \_\_\_\_\_

[7] \_\_\_\_\_

[8] \_\_\_\_\_

[9] \_\_\_\_\_

[10] \_\_\_\_\_

[11] \_\_\_\_\_

[12] \_\_\_\_\_

[13] \_\_\_\_\_

[14] \_\_\_\_\_

[15] \_\_\_\_\_

[16] \_\_\_\_\_

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[17] \_\_\_\_\_

[18] \_\_\_\_\_

[19] \_\_\_\_\_

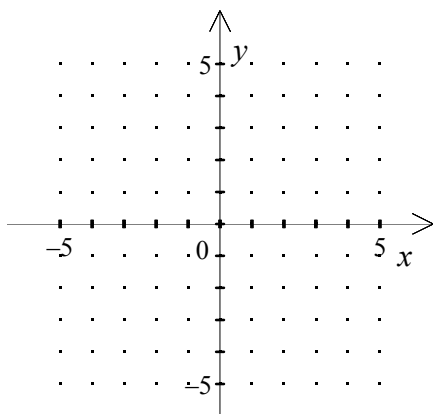
[20] \_\_\_\_\_

[21] \_\_\_\_\_

[22] \_\_\_\_\_

[23] \_\_\_\_\_

[24] \_\_\_\_\_



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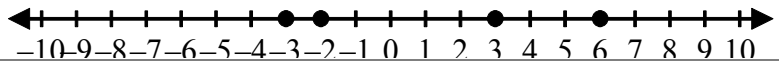
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[1] 5.9

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[2]  $-31\frac{1}{7}$

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[3]  \_\_\_\_\_

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[4] Possible solution: {21,35}, {42,56}, {28,42}

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[5] [D]

---

[6] -12

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[7] [C]

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[8] [B]

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[9]  $\frac{10}{63}$

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[10] [C]

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[11] [D] \_\_\_\_\_

---

[12] [C] \_\_\_\_\_

---

[13] [C] \_\_\_\_\_

---

[14] [B] \_\_\_\_\_

---

[15] [A] \_\_\_\_\_

---

[16] [B] \_\_\_\_\_

---

[17] [D] \_\_\_\_\_

---

[18] [C] \_\_\_\_\_

---

[19] [B] \_\_\_\_\_

---

[20] [A] \_\_\_\_\_

---

[21] [D] \_\_\_\_\_

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[22] -7

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[23] [D]

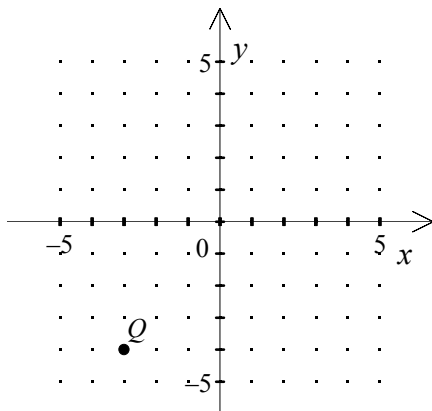
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[24] A(-7, 4), B(6, 2), C(1, -6), D(-5, -8)

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[25] \_\_\_\_\_