MATH 111 Sample 03 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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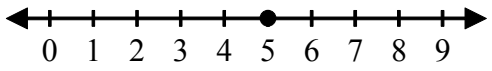
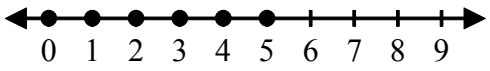
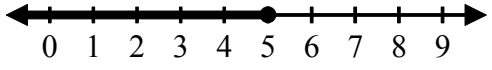
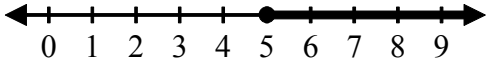
1. Which number line represents the graph of 5?

[A] 

[B] 

[C] 

[D] 

2. Find the least common multiple of 30 and 60.

3. Find the additive inverse of –9.3.

4. Simplify: $\left(-\frac{2}{9}\right)^2$ [A] $\frac{2}{11}$ [B] $\frac{2}{81}$ [C] $\frac{4}{81}$ [D] $\frac{4}{9}$

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5. Divide: $9\frac{1}{3} \div 5\frac{1}{3}$ [A] $1\frac{3}{4}$ [B] $\frac{9}{28}$ [C] $4\frac{5}{6}$ [D] $\frac{3}{4}$

6. Add: (–3) + 4 + (–2)

7. Divide: $\frac{3}{5} \div \left(-\frac{2}{10}\right)$

8. Multiply: $\frac{15}{22} \cdot \frac{4}{45}$

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9. Find the least common multiple of 14, 26, and 832.

   [A] 5824 [B] 182 [C] 4368 [D] 2912

10. Add: $7 + (-11)$ [A] 4 [B] 18 [C] –18 [D] –4

11. Solve: $8x - 5x = 5$ [A] $-\frac{5}{3}$ [B] $\frac{5}{6}$ [C] $\frac{5}{3}$ [D] $-\frac{5}{6}$

12. Solve for a in $F = kma$.

    [A] $a = \frac{F}{km}$ [B] $a = F - km$ [C] $a = F + km$ [D] $a = \frac{km}{F}$

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13. The perimeter of a square is to be between 13 and 56 feet, inclusively. Find all possible values for the length of its sides.

14. Combine like terms: $6xy^4 - (-3xy^4)$

[A] $3xy^4$ [B] $-9xy^4$ [C] $-3xy^4$ [D] $9xy^4$

15. Which of the following expressions represents "10 divided by a number"?

[A] $x-10$ [B] $10 \cdot x$ [C] $10+x$ [D] $10 \div x$

16. Solve: $x - 9 = -29$ [A] –20 [B] –38 [C] 20 [D] 38

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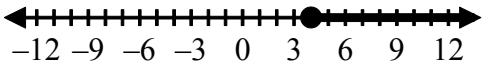
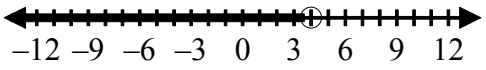
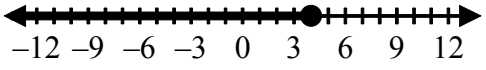
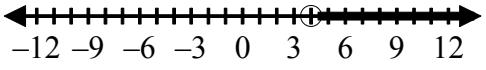
17. Graph: $x + 6 \geq 10$

[A] 

[B] 

[C] 

[D] 

18. Which of the following is a solution of the equation $6x + 3 = 2$?

[A] $-\frac{1}{6}$ [B] 5 [C] –1 [D] $\frac{5}{6}$

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19. Solve for A in $B = \frac{3}{5}(A - 8)$.

[A] $\frac{5B + 40}{3}$ [B] $\frac{5B + 37}{5}$ [C] $\frac{5B + 21}{5}$ [D] $\frac{5B + 24}{3}$

20. Simplify: $6x + 3y - 8x + y$

[A] $14x + 4y$ [B] $-2x + 2y$ [C] $14x + 2y$ [D] $-2x + 4y$

21. Which of the following expressions represents "a number subtracted from 18"?

[A] $18 - x$ [B] $18 + x$ [C] $x - 18$ [D] $18 \cdot x$

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22. The width of a rectangle is 24 centimeters. Find all possible values for the length of the rectangle if the perimeter is at least 252 centimeters.

[A] $x \geq 102$ cm [B] $x \geq 10.50$ cm [C] $x \geq 204$ cm [D] $x \geq 63$ cm

23. Find the distance between the points $P(-3, -8)$ and $Q(-3, 6)$.

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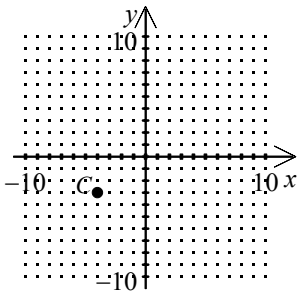
24. Which of the following is the graph of the point $C(-4, 3)$?

[A]



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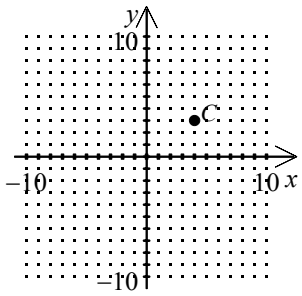

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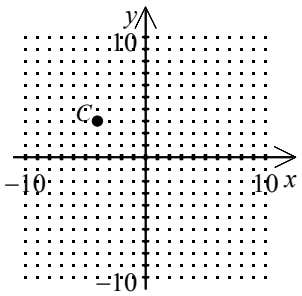
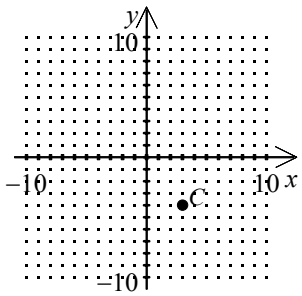


[D]



25. Sketch the graph of $(x+5)^2 + (y-3)^2 = 16$.

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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] _____

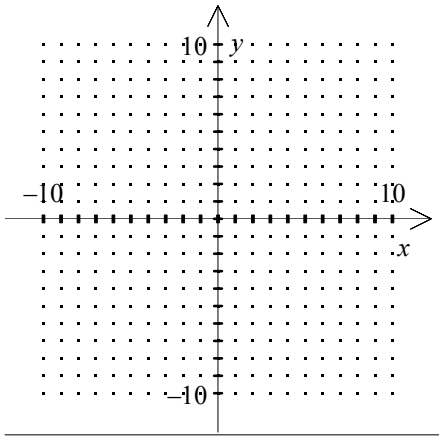
[20] _____

[21] _____

[22] _____

[23] _____

[24] _____



[25] _____

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[1] [A]

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[2] 60

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[3] 9.3

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[4] [C]

---

[5] [A]

---

[6] –1

---

[7] –3

---

[8] $\frac{2}{33}$

---

[9] [A]

---

[10] [D]

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[11] [C]

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[12] [A]

---

[13] $3.25 \le x \le 14$

---

[14] [D]

---

[15] [D]

---

[16] [A]

---

[17] [A]

---

[18] [A]

---

[19] [D]

---

[20] [D]

---

[21] [A]

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[22] [A]

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[23] 14

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[24] [C]

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[25]