

MATH 085 Sample 02 Exam 2

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

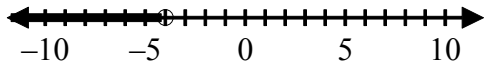
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1. Add: $3 + (-11)$ [A] -8 [B] 14 [C] -14 [D] 8

2. Simplify: $(-12)^2$ [A] 144 [B] $-\sqrt{12}$ [C] -144 [D] -24

3. Which inequality describes the graph?



[A] $m < -4$ [B] $m > -4$ [C] $m \leq -4$ [D] $m \geq -4$

4. When the product of 7 and an unknown number is decreased by 13, the result is 11. Find the number.

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5. Solve: $-5.8x = 1.218$

6. Simplify: $(4x - 3y) - (7x + 2y)$

[A] $-3x - y$

[B] $11x - y$

[C] $-3x - 5y$

[D] $11x - 5y$

7. Determine if $6x$ and $-3xy$ are like terms. Answer yes or no.

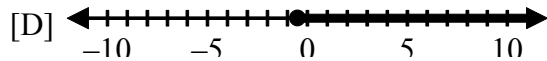
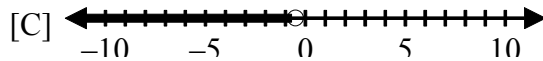
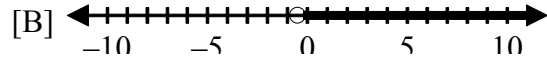
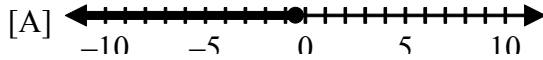
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8. Graph: $4x + 3 < 2(x + 1)$



9. Evaluate $\frac{y}{4x} - z$ for $x = 2$, $y = 32$, and $z = 1$.

10. Solve: $6x + 4 = x + 3$ [A] $-\frac{1}{5}$ [B] -5 [C] 5 [D] $\frac{1}{5}$

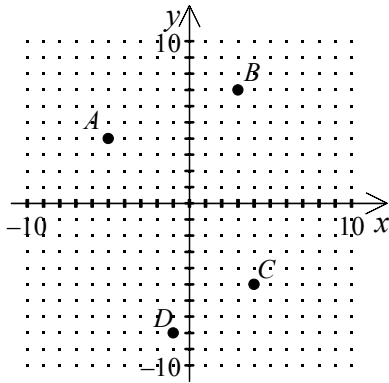
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11. Name the coordinates of the points A , B , C , and D .



12. The length of the hypotenuse in a right triangle is 13 centimeters. If the length of one leg is 12 centimeters, find the length of the other leg.
- [A] 5 cm [B] 1 cm [C] 12 cm [D] 25 cm

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13. Give the intercepts of $-9x + 3y = -6$.

[A] x -intercept is $\left(0, \frac{2}{3}\right)$; y -intercept is $(-2, 0)$

[B] x -intercept is $\left(\frac{2}{3}, 0\right)$; y -intercept is $(0, -2)$

[C] x -intercept is $(0, -9)$; y -intercept is $(3, 0)$

[D] x -intercept is $(3, 0)$; y -intercept is $(0, -9)$

14. Write the standard form of the equation of the line with slope 4 and y -intercept -1 .

[A] $4x + y - 1 = 0$ [B] $-4x - y + 1 = 0$ [C] $4x - y - 1 = 0$ [D] $-4x + y - 1 = 0$

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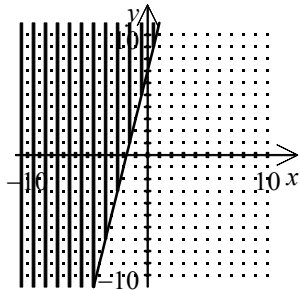
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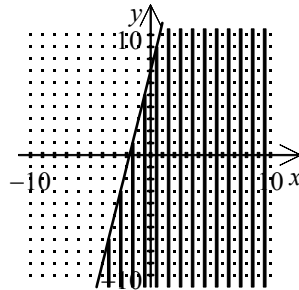
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15. Graph: $-y \geq 4x - 7$

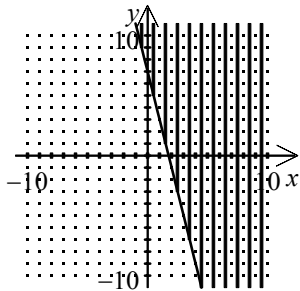
[A]



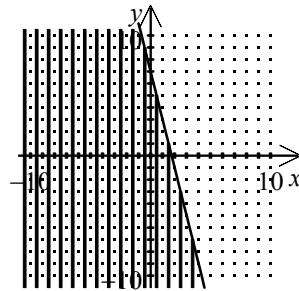
[B]



[C]



[D]



16. Find the general form of the equation of the line that passes through the points (1, 7) and (2, 9).

- [A] $2x + y = -5$ [B] $2x - y = -5$ [C] $x - 2y = -5$ [D] $x + 2y = 5$

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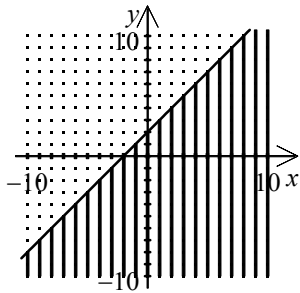
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Graph:

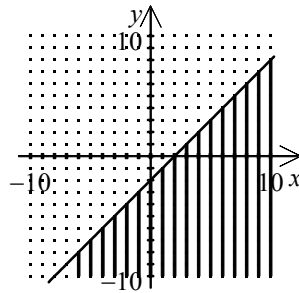
17. $x - y = 3$

18. $y \leq x + 2$

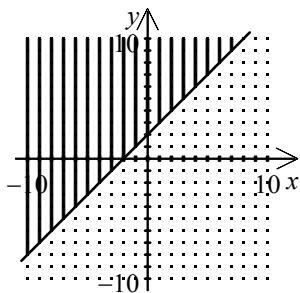
[A]



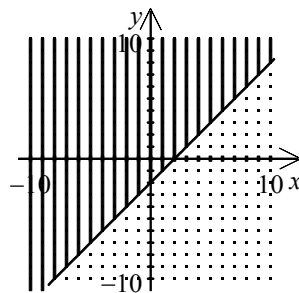
[B]



[C]



[D]



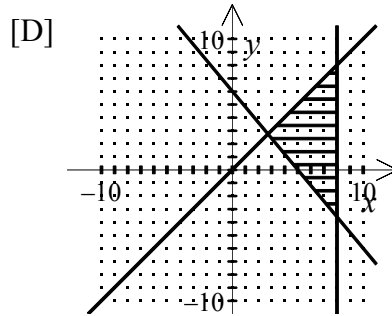
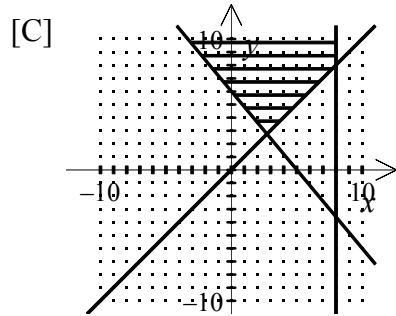
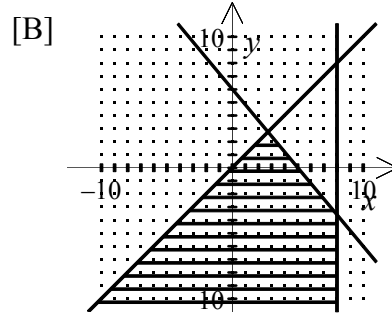
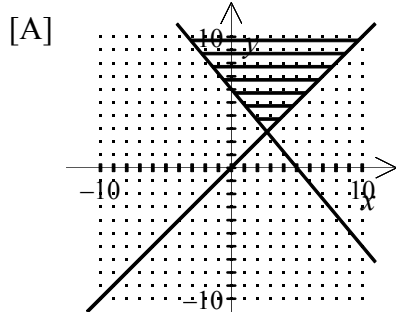
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19. Graph the solution set of the system of inequalities $6x + 5y \geq 30$, $x \geq y$, $x \leq 8$.



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20. Solve the system: $\frac{x}{3} - \frac{y}{2} = -\frac{7}{6}$
 $\frac{3x}{5} - \frac{y}{2} = -\frac{17}{10}$

[A] $\left(-1, \frac{5}{3}\right)$

[B] $(1, 3)$

[C] $(-2, 1)$

[D] $\left(\frac{7}{3}, 0\right)$

21. Solve the system for x : $x - y = -2$
 $4x + y = -1$

[A] $\frac{1}{3}$

[B] $-\frac{3}{5}$

[C] 3

[D] $\frac{7}{5}$

22. Solve: $2x + 4y = -8$
 $4x + y = 5$

[A] inconsistent (no solution)

[B] $(2, 3)$

[C] $(2, -3)$

[D] dependent (many solutions)

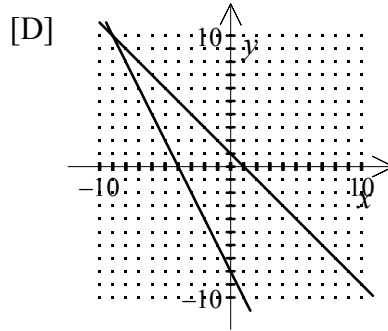
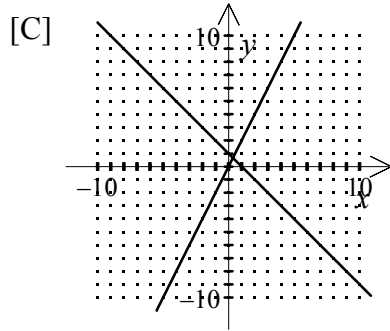
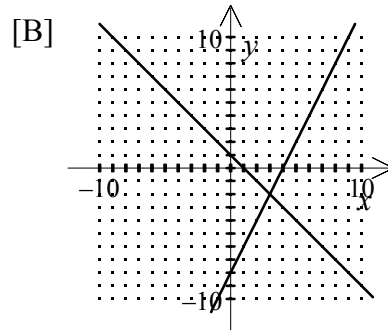
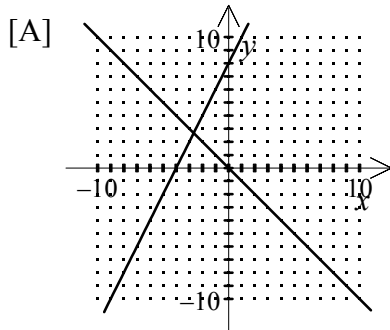
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23. Graph: $x + y = 1$
 $2x - y = 8$



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24. Solve the system: $x - 4y = 2$
 $y = 4x + 7$

[A] $(-2, -1)$

[B] inconsistent (no solutions)

[C] $(-2, 1)$

[D] dependent (many solutions)

25. Multiply: $(5x + 2y)(5x - 2y)$

[A] $25x^2 + 20xy + 4y^2$

[B] $-10x^2 - 20xy + 4y^2$

[C] $25x^2 - 4y^2$

[D] $-10x^2 + 4y^2$

26. Simplify the quotient: $-\frac{a^2b^5c^3}{abc}$

[A] ab^4c^2

[B] $\frac{1}{ab^4c^2}$

[C] $-ab^4c^2$

[D] $-a^3b^6c^4$

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Multiply:

27. $(x+5)(x^2+3x+2)$

[A] $x^3+8x^2+17x+10$

[B] $x^2+2x+10$

[C] $x^3+8x^2+15x+10$

[D] x^3+3x^2+10

28. $(4a-7)(5a+9)$

[A] $20a^2+a-63$

[B] $20a^2+a+64$

[C] $20a^2-2a+64$

[D] $20a^2+71a-63$

29. Classify as a monomial, binomial, or trinomial: $6x^2+x+3$

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30. Multiply: $(x - 3)(x^2 + 2x + 3)$

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[1] _____

[2] _____

[3] _____

[4] _____

[5] _____

[6] _____

[7] _____

[8] _____

[9] _____

[10] _____

[11] _____

[12] _____

[13] _____

[14] _____

[15] _____

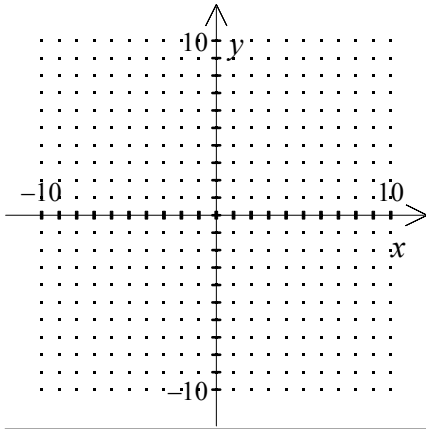
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[16] _____



[18] _____

[19] _____

[20] _____

[21] _____

[22] _____

[23] _____

[24] _____

[25] _____

[26] _____

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[27] _____

[28] _____

[29] _____

[30] _____

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[1] [A] _____

[2] [A] _____

[3] [A] _____

[4] $3\frac{3}{7}$ _____

[5] -0.21 _____

[6] [C] _____

[7] no _____

[8] [C] _____

[9] 3 _____

[10] [A] _____

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[11] $A(-5, 4), B(3, 7), C(4, -5), D(-1, -8)$

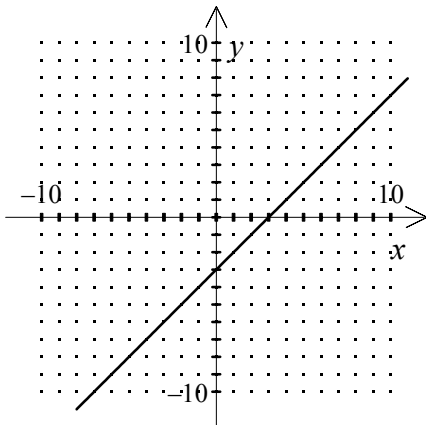
[12] [A]

[13] [B]

[14] [C]

[15] [D]

[16] [B]



[17] _____

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[18] [A] _____

[19] [D] _____

[20] [C] _____

[21] [B] _____

[22] [C] _____

[23] [B] _____

[24] [A] _____

[25] [C] _____

[26] [C] _____

[27] [A] _____

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[28] [A] _____

[29] trinomial _____

[30] $x^3 - x^2 - 3x - 9$ _____