

MATH 085 Sample 01 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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5. Classify as a monomial, binomial, or trinomial:

a) $4x^5 + x^4 - 3x$

b) $-3x^7$

6. Graph the numbers 1, 2, -8 and -4 on a number line.

7. Evaluate $x \cdot y$ if $x = 13$ and $y = -4$.

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

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Solve:

9. $-5x + 2 = 42$

10. $-4 \leq 2x + 8 \leq 10$

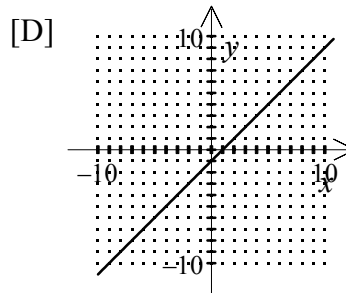
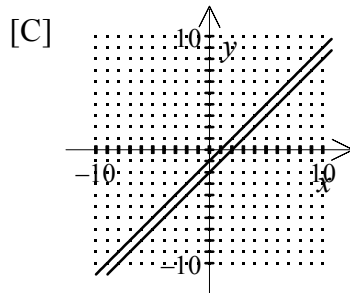
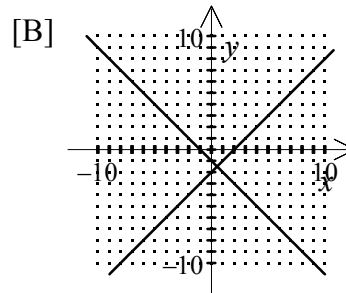
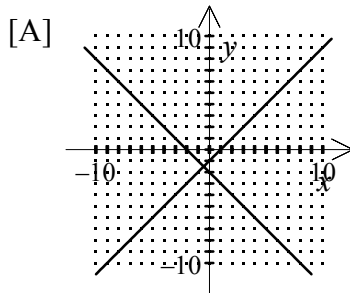
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11. Graph: $y - x = -1$
 $2y = 2x - 4$



12. Solve the system by substitution: $x + 4y = -8$
 $16y = -4x - 32$

[A] dependent (many solutions)

[B] (4, 3)

[C] inconsistent (no solution)

[D] (4, -3)

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13. Solve: $2x - y = -7$ [A] $(-9, 5)$ [B] $(0, 7)$ [C] no solution [D] $(-1, 5)$
 $x + y = 4$

14. Give the slope of the line that contains $(5, 7)$ and $(7, 7)$.

[A] 0 [B] 7 [C] $\frac{1}{6}$ [D] undefined

15. Simplify: $(q^4 r^2)^4$ [A] $q^8 r^6$ [B] $q^{16} r^2$ [C] $q^{16} r^8$ [D] $q^8 r^8$

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16. Multiply: $(-9x^2y^4)(-7x^2y^2)$

[A] $-63x^4y^6$

[B] $-63x^2y^2$

[C] $63x^4y^6$

[D] $63x^4y^8$

17. Simplify: $\frac{15x^7y}{-5x^3y^5}$

[A] $-\frac{2x^{10}}{y^6}$

[B] $\frac{3x^4}{y^4}$

[C] $\frac{2x^{10}}{y^6}$

[D] $-\frac{3x^4}{y^4}$

18. Add: $(3h^5 + 8h^4 + 2) + (6h^5 - 5h - 5)$

[A] $-3h^5 + 8h^4 - 5h + 7$

[B] $9h^5 + 3h^4 - 3$

[C] $9h^5 + 8h^4 - 5h - 3$

[D] $-3h^5 + 8h^4 + 5h + 7$

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19. Find the ratio of rise to run for the line passing through the points $A(-7, -8)$ and $B(-4, -6)$.

[A] $\frac{14}{11}$

[B] $\frac{2}{3}$

[C] $\frac{3}{2}$

[D] $\frac{13}{2}$

20. Multiply: $(x - 6)(x - 5)$

[A] $x^2 + 30x - 11$

[B] $x^2 + 30$

[C] $x^2 - x + 30$

[D] $x^2 - 11x + 30$

21. Find the slope-intercept form of the the line passing through the point $(-4, 5)$ and parallel to the line $y = -2x - 4$.

[A] $y = -2x + 6$

[B] $y = \frac{1}{2}x + 7$

[C] $y = -2x - 3$

[D] $y = 2x + 3$

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22. What property is illustrated by the fact that $44 + 68$ is a number ?
- [A] Associative Property for Addition [B] Identity Property for Addition
[C] Closure Property for Addition [D] Commutative Property for Addition

23. Evaluate $a - b + c$ if $a = 6$, $b = -11$, and $c = -12$.
- [A] 29 [B] 7 [C] -17 [D] 5

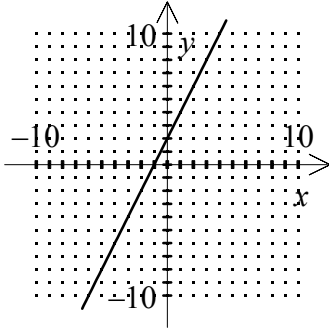
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24. Determine the slope of the line graphed below.



- [A] 2 [B] $\frac{1}{2}$ [C] -2 [D] $-\frac{1}{2}$

25. Multiply: $-3(x - 2)$

- [A] $-3x - 2$ [B] $-3x + 2$ [C] $-3x - 6$ [D] $-3x + 6$

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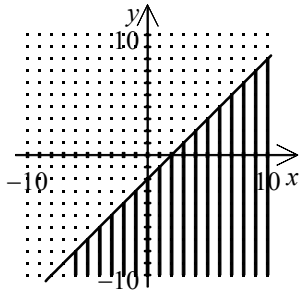
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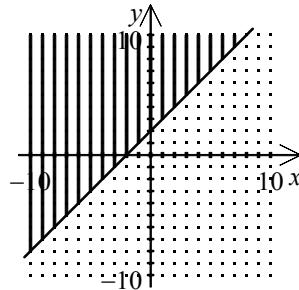
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26. Graph: $y \leq x + 2$

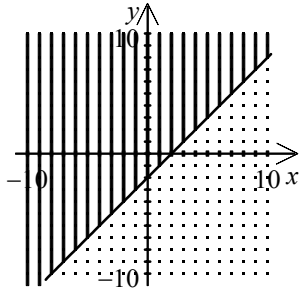
[A]



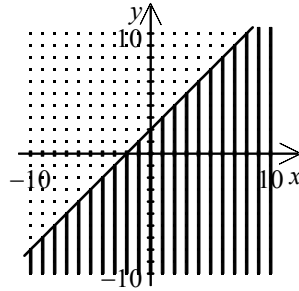
[B]



[C]



[D]



Solve:

27. $\frac{x}{2} + \frac{x}{4} = 5$

[A] $\frac{3}{20}$

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

[C] 3

[D] $\frac{20}{3}$

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Solve:

28. $3x - 4y = 10$

$$2x + 3y = 1$$

[A] dependent (many solutions)

[B] inconsistent (no solution)

[C] (2, -1)

[D] (2, 1)

29. $\frac{7}{8}y - 6 = 8$

[A] $12\frac{1}{4}$

[B] $2\frac{2}{7}$

[C] 16

[D] 17

30. Solve the system: $-5x - 20y = -10$

$$x = -4y - 2$$

[A] inconsistent system

[B] (3, -14)

[C] dependent system

[D] (3, 14)

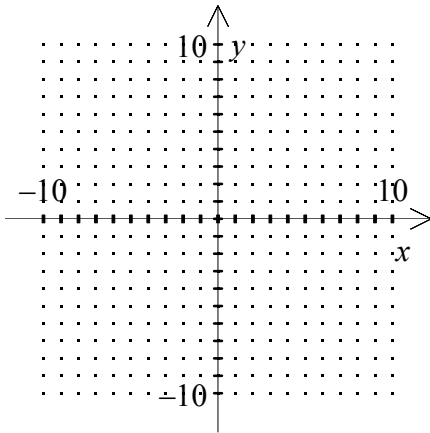
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[1] _____



[2] _____

[3] _____

[4] _____

[5] _____

[6] _____

[7] _____

[8] _____

[9] _____

[10] _____

[11] _____

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[12] _____

[13] _____

[14] _____

[15] _____

[16] _____

[17] _____

[18] _____

[19] _____

[20] _____

[21] _____

[22] _____

[23] _____

[24] _____

[25] _____

[26] _____

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[27] _____

[28] _____

[29] _____

[30] _____

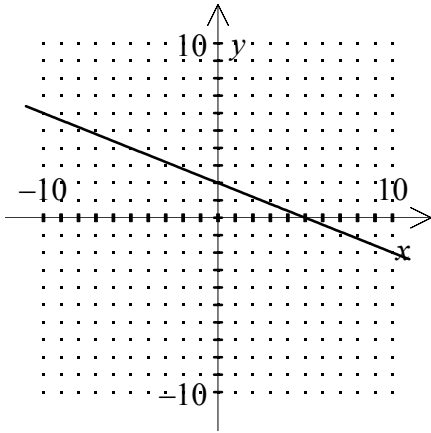
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[1] y-axis

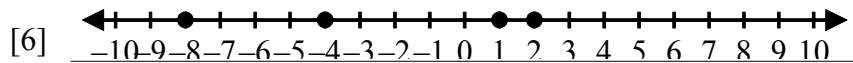


[2] _____

[3] $y = x + 9$

[4] 55 and 140

[5] a) trinomial
b) monomial



[6] _____

[7] -52

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[8] $-3x - 14$ _____

[9] -8 _____

[10] $-6 \leq x \leq 1$ _____

[11] [C] _____

[12] [A] _____

[13] [D] _____

[14] [A] _____

[15] [C] _____

[16] [C] _____

[17] [D] _____

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[18] [C] _____

[19] [B] _____

[20] [D] _____

[21] [C] _____

[22] [C] _____

[23] [D] _____

[24] [A] _____

[25] [D] _____

[26] [D] _____

[27] [D] _____

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[28] [C] _____

[29] [C] _____

[30] [A] _____