

BASIC ALGEBRA I SKILLS TEST

LAST NAME _____ FIRST : _____ ID# _____ PER _____ GRADE (circle one): 9 10 11

CURRENT MATH COURSE: Algebra 2

CURRENT MATH TEACHER : _____

Circle Level: Alg 1 EOC 1 2 3 4 5 Did not take it Idk Geometry EOC: 1 2 3 4 5 Did not take it Idk

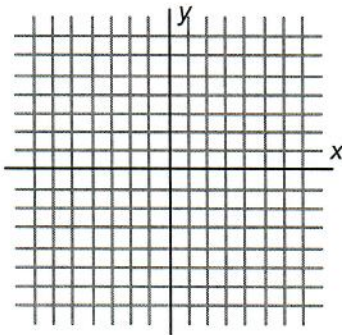
MATH HISTORY

Enter below one of the following: Regular School Year · Summer · Night School · Virtual school or other	MATH COURSE Circle one of the levels:	LETTER GRADE RECEIVED	NAME OF SCHOOL (where this math course was taken)	MATH TEACHER (who taught this course)
	Algebra I Regular/Honors/Gifted			
	Geometry Regular/Honors/Gifted			

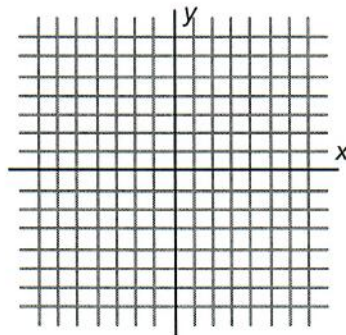
NO CALCULATORS of ANY KIND ALLOWED. SHOW WORK IN THE SPACE PROVIDED. No Work, No Credit!!!

I. GRAPH THE FOLLOWING EQUATIONS:

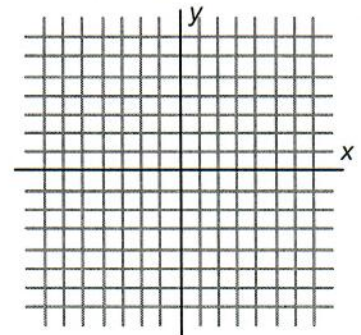
1) $x + y = 7$



2) $y = 5$



3) $y = \frac{1}{2}x + 6$



II. SIMPLIFY:

4) $(5x^2y^3)(2xy^2)$

5) $\frac{6x^2y}{2xy^2}$

6) $6x - (8 - 2x)$

7) $(2x - 5y)(5x + 3y)$

III. SOLVE THE FOLLOWING EQUATIONS:

8) $6x + 4(3 - x) = 40$

9) $13 - (2c + 2) = 2(c + 2) + 3c$

10) $\frac{1}{4}(8y + 4) - 17 = (-\frac{1}{2})(4y - 8)$

4)
5)
6)
7)
8) $x =$
9) $c =$
10) $y =$

IV. SOLVE THE FOLLOWING INEQUALITY:

11) $-2x + 11 < 13$

V. FACTOR COMPLETELY:

12) $x^2 - 9$

13) $6y^2 - 4xy$

14) $x^2 + 7x + 12$

VI. SOLVE THE FOLLOWING QUADRATIC EQUATIONS:

15) $x^2 - 6x + 8 = 0$

16) $4x^2 - 6x = 0$

VII. SIMPLIFY. LEAVE ANSWERS IN SIMPLEST RADICAL FORM:

17) $\sqrt{98}$

18) $\sqrt{45} - \sqrt{20}$

19) $(\sqrt{3x^2})(\sqrt{9x^3})$

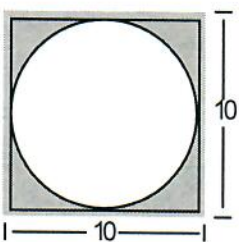
20) $9\sqrt{y} + 3\sqrt{y}$

21) $\sqrt{x^6}$

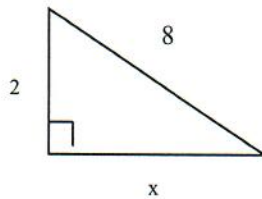
VIII. GEOMETRY.

22) Find the area of the shaded region

Do not round (all angles are right)



23) Solve for x:



24) Solve system: $x + y = 2$
 $-3x + 4y = 36$

25) Find an equation for the line containing A (5, 3) and B (2, -4). Write your answer in $y = mx + b$ form

11)

12)

13)

14)

15) x =

16) x =

17)

18)

19)

20)

21)

22)

23) x =

24) x= y=

25)