Thank you for your interest in Geometry this year! Please complete the application and email it to me at shabacivch@aimacademy.online. Once I have approved your applications, you may proceed with registration at Aim Academy.

Requires hours: 5-7 hours per week (this will depend on student's individual ability).

Student Name	
Gender	
Age	
Birthday	
Grade Next Year	
Student Email	
Mailing Address	
Parent Name(s)	
Parent Email(s)	
Parent Phone(s)	

Please list the previous coursework in math, starting with Pre-Algebra. Complete as much information as you can.

Course Name	Year(s) Taken	Curriculum Used	Grades Earned
Pre-Algebra			
Algebra I			
Other			
	<u> </u>	l	

Please complete the placement test without the use of books or calculators and give your answers below:

#	Answer
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	

Aim Academy Geometry Placement Test

1.	Which	expression	is	equival	ent	to x^2	- 4?
	** 111011	CADICOSION	4.0	Cqui vai	CHE	W A	- +.

a.
$$(x-2)^{n}$$

b.
$$(x + 2)$$

c.
$$x(x-2)$$

a.
$$(x-2)^2$$
 b. $(x+2)^2$ c. $x(x-2)$ d. $(2+x)(x-2)$

____ 2. Expand
$$(2x+4)(-x^2-3)$$
.

a.
$$-x^2 + 2x + 1$$

c.
$$-2x^3 - 4x^2 - 6x - 12$$

b.
$$-2x^3 - 12$$

d.
$$-2x^3 + 4x^2 + 6x - 12$$

a.
$$y = -3x - 2$$

b.
$$y = -3x + 2$$

c.
$$y = 3x + 6$$

a.
$$y = -3x - 2$$
 b. $y = -3x + 2$ c. $y = 3x + 6$ d. $y = -3x - 6$

b.
$$5+2$$

b.
$$5+2$$
 c. $10+2$ d. $2 \cdot 3$

5. Simplify
$$\frac{\frac{8a^3b}{3c^2}}{\frac{a^2b^2}{6c}}$$

a.
$$\frac{8a^5b^3}{18c^3}$$
 b. $\frac{bc}{16a}$

b.
$$\frac{bc}{16a}$$

c.
$$\frac{48a^3bc}{3a^2b^2c^2}$$
 d. $\frac{16a}{bc}$

d.
$$\frac{1}{k}$$

_ 6. Which is *not* a related fact of the equation
$$x + 2 = -7$$
?

a.
$$x + 7 = -2$$

b.
$$x = -7 - 2$$
 c. $2 = -7 - x$ d. $2 - x = -7$

c.
$$2 = -7 - x$$

d.
$$2 - x = -7$$

__ 7. Solve the equation
$$17 = |1 - x| - 3$$
.

8. Simplify
$$(-2x^2y)(3xy^3)^2$$
.

a.
$$-18x^4y^6$$

a.
$$-18x^4y^6$$
 b. $-18x^4y^7$ c. $-6x^4y^6$ d. $-18x^4y^5$

d.
$$-18x^4y^5$$

10. Solve
$$-4x^2 = -36$$
.

Solve the proportion.

$$\underline{\hspace{1cm}} 11. \ \frac{w+14}{4w+6} = \frac{3}{4}$$

a.
$$\frac{8}{19}$$

b.
$$\frac{15}{28}$$
 c. $\frac{19}{4}$ d. $\frac{2}{7}$

c.
$$\frac{19}{4}$$

d.
$$\frac{2}{5}$$

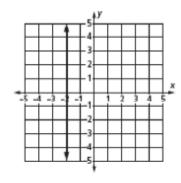
____ 12. Use the Quadratic Formula to solve the equation
$$x^2 + 9x + 1 = 0$$
.

a.
$$x = \frac{9 \pm \sqrt{85}}{2}$$

a.
$$x = \frac{9 \pm \sqrt{85}}{2}$$
 b. $x = \frac{-9 \pm \sqrt{77}}{2}$ c. $x = \frac{-9 \pm \sqrt{85}}{2}$ d. $x = \frac{9 \pm \sqrt{77}}{2}$

c.
$$x = \frac{-9 \pm \sqrt{85}}{2}$$

d.
$$x = \frac{9 \pm \sqrt{77}}{2}$$



a.
$$y = -2$$

b.
$$y = x - 2$$

b.
$$y = x - 2$$
 c. $y = -x - 2$ d. $x = -2$

d.
$$x = -2$$

$$_{--}$$
 14. Solve the inequality $-17 < 3 - 5x$.

b.
$$4 > x$$

b.
$$4 > x$$
 c. $-\frac{14}{5} < x$ d. $-\frac{14}{5} > x$

d.
$$-\frac{14}{5} > x$$

a.
$$x^2 - 36$$
 b. $2x - 12$ c. $x^2 - 6$ d. $x^2 - 12x + 36$

____ 16. Simplify
$$-2(4-y) - (2-3y)$$
.

a.
$$5y-10$$
 b. $-4y-10$ c. $-y-10$ d. $-y+6$

d.
$$-y+6$$

__ 17. Which of the following is the solution to the equation
$$\frac{2}{7}x - \frac{3}{14} = \frac{1}{14}$$
?

a.
$$-1$$
 b. $-\frac{1}{2}$ c. 1

18.	What is the slope of a line that passes through the points $(-2, 5)$ and $(7, -3)$?
	villat is the stope of a fine that passes through the points (2, 2) and (, 2).

- a. $-\frac{9}{8}$
- b. $-\frac{8}{9}$
- c. $\frac{8}{9}$
- d. $\frac{9}{8}$

- a. -15°
- b. -5°
- c. 5°
- d. 15°

20. The area of a trapezoid is given by the formula
$$A = \frac{1}{2}h(B+b)$$
. Which correctly shows the equation solved for B ?

- a. $\frac{1}{2}Ah b = B$
- b. $B = \frac{2A}{h} b$
- c. B = 2Ah b
- d. $B = \frac{2A}{h} + b$