Honors CCGPS Analytic Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review – Basics of Geometry Unit 1

2. Find the sum, 25°28’50” + 25°20’21”

3. Convert 27.34° into dms.

4. Convert 53°36’25” into decimal degrees.

5. *m*∠A = 3*x*. Given that ∠A is obtuse, what are the restrictions on *x*?

6. *m*P = 2*x* – 6. If P is acute, what are the restrictions on *x*?

7. If ∠J = 5*a* + 32, what value of *a* would allow us to conclude that ∠J is a right angle?

8. What’s the measure of the angle formed by the hands of a clock at 5:00?

At 5:30?

9. Point A is at (4, 3) on the *xy* plane. If A is reflected over the *y* axis, then translated 5 units down, what would the new coordinates be?

10. Point B is at the coordinates (-5, 0). If B is rotated 90° counter clockwise, then reflected in the line *x* = 2, what are the coordinates of B’?

11. A rectangle is graphed below (all angles are 90°)

What are the coordinates of F? What’s the area of the rectangle?

What’s the perimeter?

Use the diagram below to answer questions 12 – 15.



12.

13.

14.

15.

14. **“*If it’s not a duck, then it dances*”** Write the converse, inverse, and contrapositive:

Conv:

Inv:

Contr:

15. If an original statement is true, then contrapositive must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. Assume the following are true statements, use syllogism to write a valid conclusion.

*If I stay up too late, then I’ll lose inteligence.*

*If I lose inteligence, I’ll start liking Drake.*

*If I like Drake, then adults will make fun of me.*

17. Name a counterexample that would show the statement, “*If it’s a Fararri, then it’s red*” to be false.