Exercise 1

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Improve The Writing:

- 1. There are 3 special cases. \rightarrow There are three special cases.
- 2. It does not tend to infinity. \rightarrow It does not tend to infinity.
- 3. $\therefore c^{-1}$ is undefined. \rightarrow therefore c^{-1} is undefined.
- 4. We square the equation. \rightarrow We square both sides of the equation.
- 5. $x^2 = y^2$ are two othogonal lines. \rightarrow The equation $x^2 = y^2$ represents two orthogonal lines.
- 6. This set of matrixs are all invertible. \rightarrow This set consists of invertible matrices.
- 7. Purely imaginary is when the real part is zero. → Purely imaginary means that the real part is zero. (If the real part is zero, then the number is purely imaginary.)
- 8. From the fact that x = 0, I can't divide by x. \rightarrow Since x is zero, I can't divide by x. (I can't divide by x, because x = 0.)
- 9. The function f is not discontinuous. \rightarrow The function f is continuous.
- 10. The solution is not independent of s. \rightarrow The solution depends on s.

Exercise 1:

- 1. X is a finite set. \rightarrow The set X is finite.
- 2. It follows $x 1 = y^4$. \rightarrow hence(it follows that) $x 1 = y^4$.
- 3. The product of 2 negatives is positive. \rightarrow Multiplying two negative numbers results in a positive number. (The product of two negative numbers is a positive number.)
- 4. We have less solutions than we had before. \rightarrow We have fewer solutions than we had before.
- 5. Let us device a strategy for a proof. \rightarrow here is a strategy for the proof. (Let us consider/use/find a strategy for the proof.)
- 6. If the integral = 0 the function is undefined. \rightarrow If the integral equals 0, then the function is undefined.
- 7. Construct the set of vertex of triangles. \rightarrow Construct the set of all vertexes of triangles.

- 8. A circle is when major and minor axis are the same. \rightarrow A circle is a shape with equal major and minor axes.
- 9. Plug-in that expression in the other equation. \rightarrow Add that expression to both sides of the other equation.
- 10. I found less solutions than I expected. \rightarrow I found fewer solutions than I expected.
- 11. When the discriminant is ; 0, you get complex. → You get complex results if the discriminant is negative. (If the discriminant is negative, you get complex results.)
- 12. We prove Euler theorom. \rightarrow We prove Euler's theorem.
- 13. The definate integral is where you don't have integration limits. \rightarrow An integral is definite when it doesn't have integration limits. (If an integral doesn't have integration limits, it is definite.)
- 14. The asyntotes of this hiperbola are othogonal. \rightarrow The asymptotes of this hyperbola are orthogonal.
- 15. A quadratic function has 1 stationery point. \rightarrow A quadratic function has only one stationary point.
- 16. The solution is not independent of s. \rightarrow The solution depends on s.
- 17. a is negative $\therefore \sqrt{a}$ is complex. \rightarrow a is negative, therefore \sqrt{a} (square root of a) is complex.
- 18. Thus x = a. (We assume that a is positive). \rightarrow Thus x = a. (We assume that a is positive.)
- 19. Each value is greater than their reciprical. \rightarrow Each value is greater than its reciprocal.
- 20. Remember to always check the sign. \rightarrow Always remember to check the sign.
- 21. Differentiate f n times. \rightarrow Differentiate function f, repeating this process n times.