**COMP 2150 – Spring 2019**

**Homework 3: Inheritance/Binding/Polymorphism (80 points)**

*Written Responses – Keaton Burleson*

Q3. **For matching, the compiler will find a matching method according to the parameter type, number of parameters, and the order of parameters at the time of compilation. This can also be called static binding or early binding.**

Q4. **With static polymorphism, you are essentially overloading variables to get the desired result. When B is overloading C you get the results from C only.**

Q5. **This is polymorphism because there are two classes, “Base” and “Derive” that can be pointed to the same reference variable. The supertype of “Derive” is “Base” and the subtype of “Derive” is “Base”**

Q6. **The “Shape.erase()” line shows since we’re calling erase() on a Triangle object, but the Triangle object does not implement the erase method, so its calling the erase method of the super class (Shape)**