

COMP 160 Object-oriented Programming

Lab 7

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Function Plotter

- We will plot different functions by creating a superclass named Function.
- Extend the Function class to:
 - TangentFunction
 - SineFunction
 - CosineFunction
 - ExponentialFunction
- Plot these functions using a FunctionPlotter
- Draw the functions using StdDraw



UML Diagrams

```
# color : Color

+ plot(xMin : double, xMax : double, width : double) : void
+ evaluate(x : double) : double
+ Function()
+ Function(color : Color)
java.awt.Color
```

WIDTH:800 HEIGHT:600 X_MIN=-Math.PI*2 X_MAX=Math.PI*2 Y_MIN=-6 Y_MAX=6







