Code: homework1_444.sas

```
Proc Import datafile = "/home/u60672671/PolarVortex.xlsx"
       out = PolarVortex
   DBMS = xlsx
   replace;
getnames = yes;
run;
Data Vortex;
Set PolarVortex:;
AvgWindMPH = 2.2369*AvgWind;
AvgTempF = ((9/5)*AvgTemp) + 32;
Proc Means data = Vortex;
Var windChill;
run;
symbol value = "circle" color = blue I = join;
Proc Gplot data = Vortex;
plot windChill *date/vref = 15.3774209;
Proc Sort data = Vortex;
by windChill;
run;
Proc Print data = Vortex;
var Date windChill;
run;
Data normaldist;
do i =1 to 1000;
x = 25 + rannor(-1) * 2.7;
output;
end:
drop i;
run;
Proc Means data = normaldist;
Var x;
run;
Proc Univariate data = normaldist noprint;
hist x/kernel;
run;
Data exponentialdist;
do i =1 to 1000;
x = -10 * log(ranuni(-1));
output;
end;
drop i;
run;
Proc Means data = exponentialdist;
Var x;
Proc Univariate data = exponentialdist noprint;
hist x/kernel;
run;
```

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