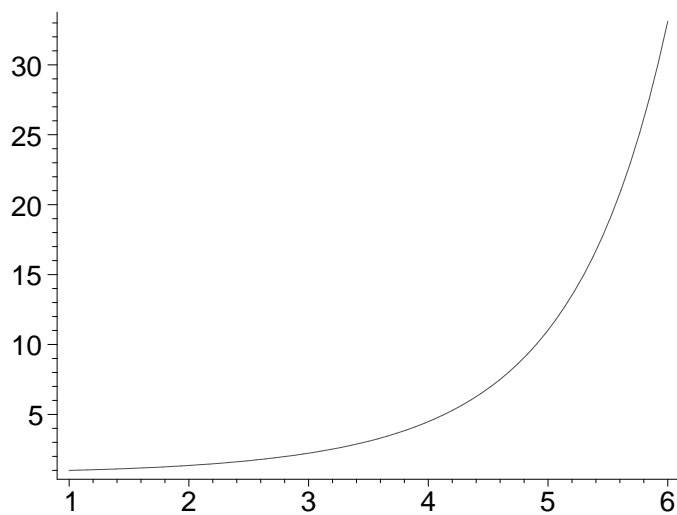


```

[ > restart;
[ > f:=(x,y)->0.2*x*y;
                                f:=(x,y)→0.2 x y
[ > x[0]:=1;
  y[0]:=1;
                                x0:=1
                                y0:=1
[ > n:=64;
  h:=5.0/n;
                                n := 64
                                h := 0.07812500000
[ > for i from 0 to n-1 do
  x[i+1]:=x[0]+h*(i+1);
  k1:=h*f(x[i],y[i]);
  k2:=h*f(x[i]+0.5*h,y[i]+0.5*k1);
  k3:=h*f(x[i]+0.5*h,y[i]+0.5*k2);
  k4:=h*f(x[i+1],y[i]+k3);
  y[i+1]:=y[i]+(1.0/6.0)*(k1+2*(k2+k3)+k4);
od:
[ > plot([seq([x[i],y[i]],i=0..n)]);

```



```

[ > x[n]; y[n];
                                6.000000000
                                33.11542780
[ > correctans:=exp(-0.1)*exp(6^2*0.1);
                                correctans := 33.11545195
[ > AbsError:=abs(correctans-y[n]);
                                AbsError := 0.00002415
[ > RelError:=AbsError/correctans;
                                RelError := 0.7292668098 10-6

```