作业程序

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EX1

```
#include<stdio.h>
int main(){
   double x,y;
    x=1;
    y=1;
    double x1,y1;
    for(int i=1;i<=100;i++){
        printf("%lf %lf\n",x,y);
        x1=5*x-3*y;
        y1=-6*x-2*y;
        if(i>=2){
            printf("The weight is %lf \n'', x1/x, y1/y);
        }
        x=x1;
        y=y1;
   }
}
```

EX2

```
#include<stdio.h>
int main(){
   double x,y;
   x=1;
   y=1;
   double x1,y1;
    for(int i=1;i<=100;i++){
        printf("%lf%lf\n",x,y);
        x1=-1*x+1.5*y;
       y1=1.5*x-3.5*y;
        if(i>=2){
            printf("The weight is %lf %lf\n", x1/x, y1/y);
        }
        x=x1;
       y=y1;
   }
}
```

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下午11:08

2.(1)
$$A = \begin{bmatrix} 3 \\ 3 \end{bmatrix}$$
 $A \times k+1 = xk$
 $X^{\circ} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $A = -4.2025b = 7A^{\circ} = -0.2379$
Yahing (1, 2.135)