

—:

1. D
2. C
3. A
4. C
5. D
6. B
7. A
8. B
9. C
10. A

==:

1.
b,B,A,b
2.
25
3.
285.00
4.
1000 10
5.
5

≡:

1.
(1)
- (2)
- (3)
- (4)

```
1 MAX
```

```
1 i=1
```

```
1 a[i]
```

```
1 i--
```

(5)

```
1 i!=0 //或者i>0
```

2.

(6)

```
1 #include<math.h>
```

(7)

```
1 return
```

(8)

```
1 simpson(0,2,n,f,&s)
```

(9)

```
1 simpson(0,PI/4,n,tg,&s)
```

(10)

```
1 fabs(x1-x)>eps
```

四:

1.

```
1 char cap(char c){
2     int p='a'-'A';
3     if (c>='a'&&c<='z')
4         return c-p;
5     else
6         return c;
7 }
```

2.

```
1 #include<stdio.h>
2 float p(int n, float x){
3     if (n==0)
4         return 0;
5     else if(n==1)
6         return x;
7     else
8         return ((2*n-1)*x*p(n-1,x)-(n-1)*p(n-2,x))/n;
9 }
10 int main() {
11     float rs = p(4,1.5);
12     printf("%f\n",rs);
13     return 0;
14 }
```

3.

```
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     for (int i = 1; i < 1000; ++i) {
5         int sum = 1;
6         for (int j = 2; j < sqrt(i); ++j) {
7             if (i%j==0)
8                 sum += j+i/j;
9         }
10        if (sum == i)
11            printf("%d\n", i);
12    }
13    return 0;
14 }
```

4.

```
1 #include <stdio.h>
2 int main() {
3     float len =0,high=1000;
4     for (int i = 0; i < 10; ++i) {
5         len+=high;
6         high=high/2;
7         len+=high;
8     }
9     len-=high;
10    printf("第十次落地时,共经过%fm\n", len);
11    printf("第十次反弹%fm\n", high);
12    return 0;
13 }
```

5.

```
1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     char string[1000]; //字符串数组
5     int n=0; //字符数组长度
6     char ch;
7     ch = getchar();
8     while (ch!='\n'){
9         string[n] = ch;
```

```
10  n++;
11  ch = getchar();
12  }
13  string[n] = '\0';
14  int integers[1000]; //存储结果整数
15  int k=0,p=0,index=0,num=0,flag=0; //k,p分别为字符串整数始末坐标, index为
    整数数组长度
16  for (int i = 0; i <= n; ++i) {
17  if (string[i]>='0'&&string[i]<='9'){
18  if (flag==0){ //该数字字符是第一次出现
19  flag=1;
20  k=i;
21  p=i;
22  } else{
23  p++;
24  }
25  } else{
26  if (flag==1){ //连续数字结束
27  num=0;
28  flag=0;
29  int c=0;
30  for (int j = p; j >=k ; j--) {
31  num+=(string[j]-'0')*(int)pow(10,c);
32  c++;
33  }
34  integers[index++] = num;
35  }
36  }
37  }
38  printf("共计%d个整数\n", index);
39  for (int l = 0; l < index; ++l) {
40  printf("%d\t", integers[l]);
41  }
42  return 0;
43 }
```