$\boxed{\text{Пt.4}}$ (d) $ax^2 + bx + c = 0$

$a, b, c \geqslant 0$

$$\boxed{x_1, x_2 = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2 \cdot a}}$$

(✳) Check if $D \geqslant 0$

17/Oct/2017

$$D = (b^2 - 4ac)$$

$\vdots$

$D = b*b - 4*a*c;$ ➤ ? ✳

#include <math.h>

$D1 = sqrt(D);$ ➤ math.h

$x_1 = (-b + D1)/2*a;$

$x_2 = (-b - D1)/2*a;$

$(c == 119)$ & not like $c = 119$

$\boxed{T1.5}$ $i = 7$ $f = 5.5$

$c >= 10 * (i + f);$

$\underbrace{\qquad\qquad}$

119 $\quad$ 125

false $\Rightarrow \underline{0}$

logical $\underline{and}$ $\&\&$

$\underline{or}$ $||$

negate $!$

$\boxed{T1.b}$ Let $c = 'b'$

$(f > 4) \&\& (c <= 'w')$

$\underbrace{\qquad\qquad}$

True $\Rightarrow 1$

$(c*3 <= i*2)$ OR $(f > 0)$

f T

True $\Rightarrow$ 1

$++x \quad x++$ / $--x \quad x--$

$x = x+1$ $\quad$ $x = x-1$

$\begin{cases} x = 1; \\ y = x++; \end{cases}$

$y = 1$

& $x = 2$

$x = 1;$

$y = ++x;$

$y = 2;$

$x = 2;$

(T1.8) x += 2;   x /= 2;

x = ⟨x⟩ + 2   x = x/2;
    LHS
    ___

x ⟨+=⟩ (y + x)/5 + 3;

x = ⟨x⟩ + (y+x)/5 + 3;

x *= (y / marilyn);

x = x * (y / marilyn);

exp1 ? exp2 : exp3;

if (exp1) {
        exp2;
}
else exp3;

T1.9

(a) $((c = \text{getchar}() \;!= \text{EOF}) \;\&\&\; (c \;!= '\backslash n'))$

EOF → String.h, Stdlib.h

```
a b c d e
e f g
[EOF]
```

(b)

-15   -10   10   15
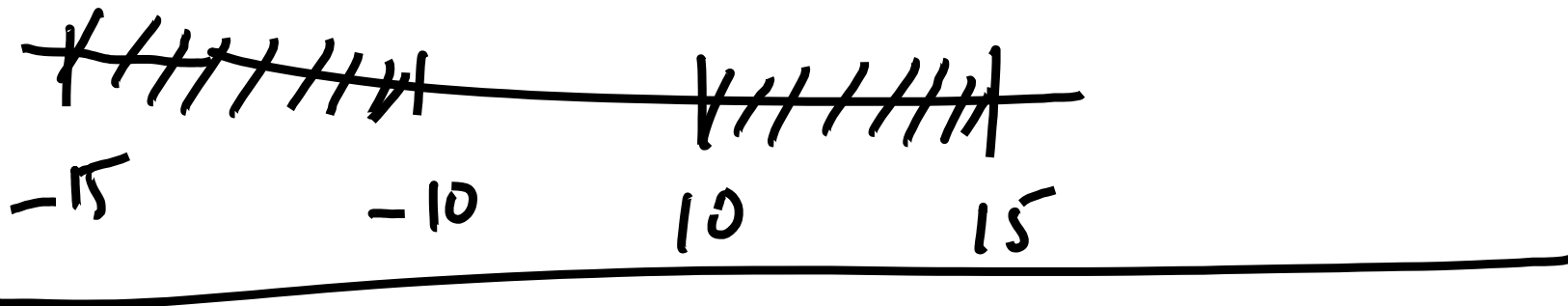
(c) $(((c >= 'a' \;\&\&\; c <= 'z') \;||\; (c >= 'A' \;\&\&\; c <= 'z')))$

```
#define PI 1.41593

main(){
    :
    :

    area = PI * r * r;
```

stdio.h
math.h
string.h
stdlib.h
limits.h
time.h

$\sqrt{x^5}$

sqrt, pow

<u>Chap 2</u>

```
if ( exp )
{
    ≡
}
```
→ always evaluated for TRUE

T2.2

```
x=7;
while (x >= 0) {
    printf(x);
    x=x-2;
}
```
→ 7
5
3
1

```
x=x-2;
printf(x);
```
5
3
1
-1

T 2.3

```
do {          num=0;
    printf( num++);
} while (num <= 9);
```

```
0
1
.
.
.
8
9
```

```
for (i=0; i < 10; i++)
{

}
```

```
for ( initial val ; range ; update) {   }
```

T2.4

```
for(i=1; i<=5; i++){
    printf(i);
    i+=2;  →  i=i+2;
}
3
```

i
―
1

4