**Квадратні рівняння**

|  |  |  |
| --- | --- | --- |
| *ax*2 + *bx* + *c* = 0  *D = b2 – 4ac.* | ***x2 + 2x – 3 = 0;***  *a=1, b=2, c = –3;*  *D = b2 – 4ac = 4–4·1·(–3)=16*  ***x2 + 2x – 4 = 0;***  *a=1, b=2, c = –4;*  *D = 4–4·1·(–4)=20*  ***2x2 – 3x – 2 = 0;***  *a=2, b=–3, c = –2;*  *D = 9–4·2·(–2)=20* | **x2 – 4x + 3 = 0**  *a =1, b = –4, c = 3.*  *D= b2 – 4ac = 16–4·1·3=4* |

**Завдання №1. Визначте параметри квадратного рівняння та дискримінант**

|  |  |  |
| --- | --- | --- |
| *x2 + 2x – 3 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | *x2 + 3x – 4 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | *x2 – 4x – 21 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* |
| x2 + x – 56 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | x2 – 6x – 7 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | –6x2 – 7x – 1 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* |
| 3x2 – 10x + 3 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | –3x2 + 7x + 6 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* | x2 – 8x + 20 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =* |

**Завдання №2. Вирішіть квадратні рівняння**

|  |  |  |
| --- | --- | --- |
| *x2 + 2x – 3 = 0;*  *a=­1 , b=2, c = –3;*  *D = b2 – 4ac = 22–4·1·(–3)=4+12=16*    *x1=*  *x2=* | *x2 + 3x – 4 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | *x2 – 4x – 21 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* |
| x2 + x – 56 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | x2 – 6x – 7 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | –6x2 – 7x – 1 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* |
| x2 + 7x + 6 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | –x2 + 6x + 55 = 0;  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | *10x2 – 7x – 3 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* |
| *2x2 – x – 4 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | *–5x2 + 7x – 2 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* | *2x2 – x – 6 = 0;*  *a=\_\_ , b=\_\_, c = \_\_;*  *D =*  *x =*  *x1=*  *x2=* |