

*Chironomus riparius*

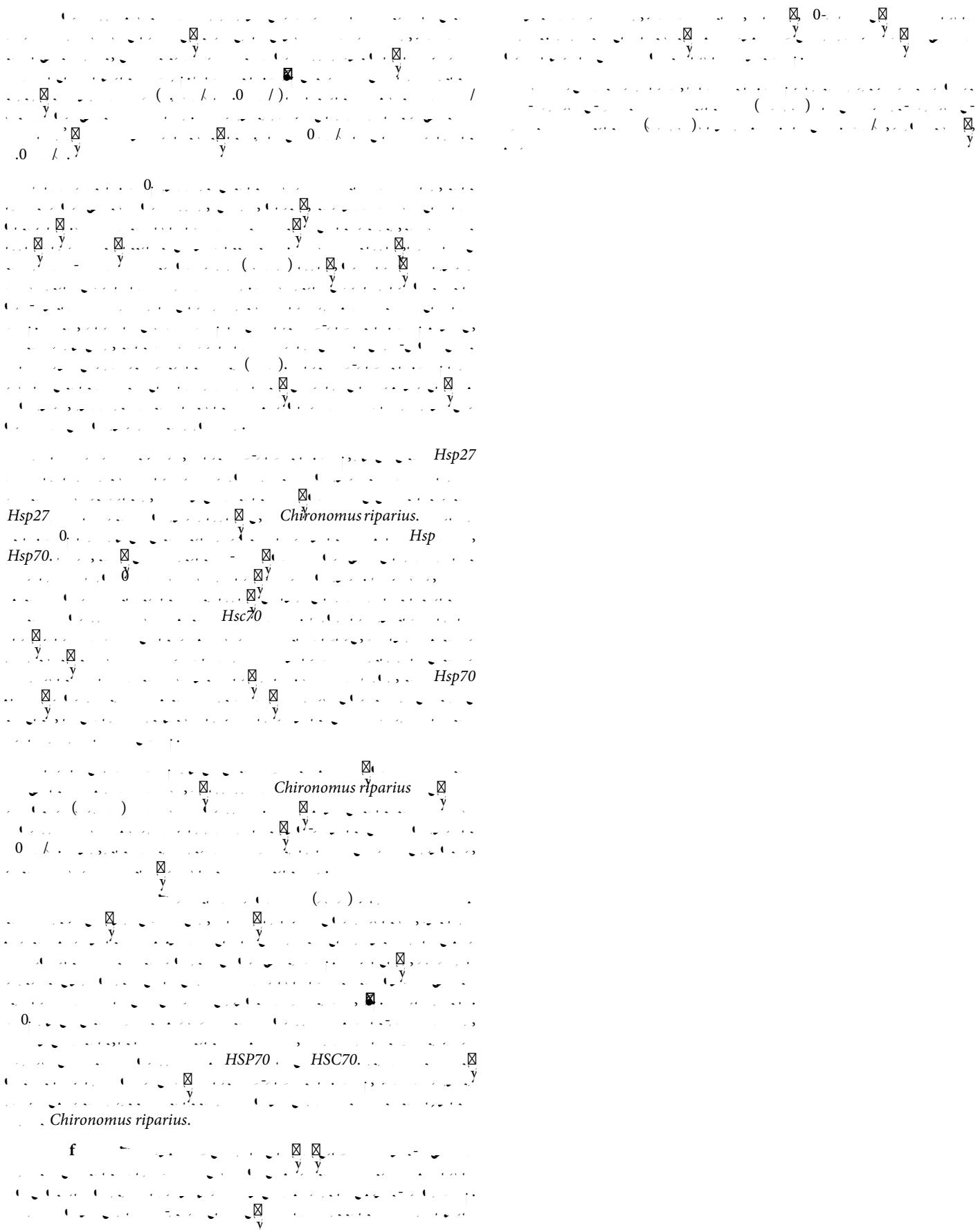
The following table gives the values of  $\alpha$  and  $\beta$  for the first 100 terms of the sequence. The values of  $\alpha$  are given in parentheses, and the values of  $\beta$  are given in brackets. The values of  $\alpha$  are approximately equal to the values of  $\beta$ , and the values of  $\beta$  are approximately equal to the values of  $\alpha$ . The values of  $\alpha$  and  $\beta$  are approximately equal to the values of  $\alpha$  and  $\beta$  respectively.

| $n$ | $\alpha$ | $\beta$ |
|-----|----------|---------|
| 1   | (0.5)    | [0.5]   |
| 2   | (0.5)    | [0.5]   |
| 3   | (0.5)    | [0.5]   |
| 4   | (0.5)    | [0.5]   |
| 5   | (0.5)    | [0.5]   |
| 6   | (0.5)    | [0.5]   |
| 7   | (0.5)    | [0.5]   |
| 8   | (0.5)    | [0.5]   |
| 9   | (0.5)    | [0.5]   |
| 10  | (0.5)    | [0.5]   |
| 11  | (0.5)    | [0.5]   |
| 12  | (0.5)    | [0.5]   |
| 13  | (0.5)    | [0.5]   |
| 14  | (0.5)    | [0.5]   |
| 15  | (0.5)    | [0.5]   |
| 16  | (0.5)    | [0.5]   |
| 17  | (0.5)    | [0.5]   |
| 18  | (0.5)    | [0.5]   |
| 19  | (0.5)    | [0.5]   |
| 20  | (0.5)    | [0.5]   |
| 21  | (0.5)    | [0.5]   |
| 22  | (0.5)    | [0.5]   |
| 23  | (0.5)    | [0.5]   |
| 24  | (0.5)    | [0.5]   |
| 25  | (0.5)    | [0.5]   |
| 26  | (0.5)    | [0.5]   |
| 27  | (0.5)    | [0.5]   |
| 28  | (0.5)    | [0.5]   |
| 29  | (0.5)    | [0.5]   |
| 30  | (0.5)    | [0.5]   |
| 31  | (0.5)    | [0.5]   |
| 32  | (0.5)    | [0.5]   |
| 33  | (0.5)    | [0.5]   |
| 34  | (0.5)    | [0.5]   |
| 35  | (0.5)    | [0.5]   |
| 36  | (0.5)    | [0.5]   |
| 37  | (0.5)    | [0.5]   |
| 38  | (0.5)    | [0.5]   |
| 39  | (0.5)    | [0.5]   |
| 40  | (0.5)    | [0.5]   |
| 41  | (0.5)    | [0.5]   |
| 42  | (0.5)    | [0.5]   |
| 43  | (0.5)    | [0.5]   |
| 44  | (0.5)    | [0.5]   |
| 45  | (0.5)    | [0.5]   |
| 46  | (0.5)    | [0.5]   |
| 47  | (0.5)    | [0.5]   |
| 48  | (0.5)    | [0.5]   |
| 49  | (0.5)    | [0.5]   |
| 50  | (0.5)    | [0.5]   |
| 51  | (0.5)    | [0.5]   |
| 52  | (0.5)    | [0.5]   |
| 53  | (0.5)    | [0.5]   |
| 54  | (0.5)    | [0.5]   |
| 55  | (0.5)    | [0.5]   |
| 56  | (0.5)    | [0.5]   |
| 57  | (0.5)    | [0.5]   |
| 58  | (0.5)    | [0.5]   |
| 59  | (0.5)    | [0.5]   |
| 60  | (0.5)    | [0.5]   |
| 61  | (0.5)    | [0.5]   |
| 62  | (0.5)    | [0.5]   |
| 63  | (0.5)    | [0.5]   |
| 64  | (0.5)    | [0.5]   |
| 65  | (0.5)    | [0.5]   |
| 66  | (0.5)    | [0.5]   |
| 67  | (0.5)    | [0.5]   |
| 68  | (0.5)    | [0.5]   |
| 69  | (0.5)    | [0.5]   |
| 70  | (0.5)    | [0.5]   |
| 71  | (0.5)    | [0.5]   |
| 72  | (0.5)    | [0.5]   |
| 73  | (0.5)    | [0.5]   |
| 74  | (0.5)    | [0.5]   |
| 75  | (0.5)    | [0.5]   |
| 76  | (0.5)    | [0.5]   |
| 77  | (0.5)    | [0.5]   |
| 78  | (0.5)    | [0.5]   |
| 79  | (0.5)    | [0.5]   |
| 80  | (0.5)    | [0.5]   |
| 81  | (0.5)    | [0.5]   |
| 82  | (0.5)    | [0.5]   |
| 83  | (0.5)    | [0.5]   |
| 84  | (0.5)    | [0.5]   |
| 85  | (0.5)    | [0.5]   |
| 86  | (0.5)    | [0.5]   |
| 87  | (0.5)    | [0.5]   |
| 88  | (0.5)    | [0.5]   |
| 89  | (0.5)    | [0.5]   |
| 90  | (0.5)    | [0.5]   |
| 91  | (0.5)    | [0.5]   |
| 92  | (0.5)    | [0.5]   |
| 93  | (0.5)    | [0.5]   |
| 94  | (0.5)    | [0.5]   |
| 95  | (0.5)    | [0.5]   |
| 96  | (0.5)    | [0.5]   |
| 97  | (0.5)    | [0.5]   |
| 98  | (0.5)    | [0.5]   |
| 99  | (0.5)    | [0.5]   |
| 100 | (0.5)    | [0.5]   |

$$\frac{\partial}{\partial y} \otimes \frac{\partial}{\partial y} = J_{\alpha\beta} \left( \frac{\partial}{\partial x^\alpha} \otimes \frac{\partial}{\partial x^\beta} \right) = \frac{\partial}{\partial y} \otimes \frac{\partial}{\partial y}$$

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