Critical points: (2.9191, -0.7505) (3.5963, -2.0459) (4.3385, -0.8231)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Point #** | **(x,y)** | **f(x,y)** | **A** | **B** | **C** | **D** | **Type of point** |
| 1 | (2.9191, -0.7505) | -1.2236 | 4.4893 | 0.7479 | 4.8363 | -21.1523 | Relative minimum |
| 2 | (3.5963, -2.0459) | 0.1796 | -0.7658 | 0.2415 | -1.4008 | 1.0145 | Relative maximum |
| 3 | (4.3385, -0.8231) | -0.2268 | 0.0721 | -0.3371 | 1.5743 | 0.0000864 | Saddle point |