|  |  |
| --- | --- |
| 1. F(x) = -x2 + 2x + 24   **(1, 25)**    Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: | 1. g(x) = x3 + 3x2 – 4x – 12     **(.528, -13.128)**  **(-2.528, 1.128)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: |
| 1. h(x) = x3 – 6x2 + 9x     **(3, 0)**  **(1, 4)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: | 1. k(x) = -x4 + 18x2 – 81     **(3, 0)**  **(-3, 0)**  **(0, -81)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: |
| 1. f(x) = x2 – 2x – 8     **(1, -9)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: | 1. g(x) = -x3 – 3x2 + 9x + 27     **(1,32)**  **(-3, 0)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: |
| 1. f(x) = x3 – 4x     **(1.15, -3.08)**  **(-1.15, 3.08)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: | 1. g(x) = -x4 + 5x2 - 4     **(0, -4)**  **(-1.58, 2.25)**  **(1.58, 2.25) 0)**  Domain:\_\_\_\_\_\_\_\_\_\_\_\_ Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  INC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DEC:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  REL Max:\_\_\_\_\_\_\_\_\_\_\_ REL Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ABS Max:\_\_\_\_\_\_\_\_\_\_\_ ABS Min:\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Y-Int:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Even, Odd, or Neither?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  End Behavior: |