|  |  |
| --- | --- |
| 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: |