|  |  |
| --- | --- |
| 1. Factor completely: | 2. Factor completely: |
| 3. Factor completely: | 4. Factor completely: |
| 5. Factor completely: | 6. Factor completely: |
| 7. Factor completely: | 8. Factor completely: |
| 9. Factor completely: | 10. Simplify completely: |
| 11. Simplify completely: | 12. Simplify completely: |
| 13. Simplify completely: | 14. Simplify completely: |

|  |  |
| --- | --- |
| 15.  Domain \_\_\_\_\_\_\_\_\_\_\_ Range \_\_\_\_\_\_\_\_\_\_\_\_  Extrema \_\_\_\_\_\_\_\_\_\_\_\_\_ AOS \_\_\_\_\_\_\_\_\_  Inc. \_\_\_\_\_\_\_\_\_\_ Dec \_\_\_\_\_\_\_\_\_\_  Y – Int \_\_\_\_\_\_\_\_ X - ints \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    End Behavior  [image] | 16. Sketch a graph with the following characteristics:  Extrema (-1, 4)  Increasing  Decreasing    Extrema (1, -4)  Roots at (-1, 0) (3, 0) |
| Into which group or groups does each number go?   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | Natural | Whole | Integers | Rational | Irrational | Real | Imaginary | Complex | | 4/9 |  |  |  |  |  |  |  |  | | 8-3i |  |  |  |  |  |  |  |  | | 12 |  |  |  |  |  |  |  |  | | |