Homework 4.5: Fundamental Theorem Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Math 3

**Directions:** For each, factor and solve for the intercepts. Then, state the end behavior and sketch the graph.

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|  | Equation: f(x)= –x(x – 2)(x – 4) | Graph:  |
| Intercepts:End Behavior: |

|  |  |  |
| --- | --- | --- |
|  | Equation: g(x) = x(x2 + 4x + 4) | Graph:  |
| Intercepts:End Behavior: |

|  |  |  |
| --- | --- | --- |
|  | Equation: y = x3 – x2  | Graph:  |
| Intercepts:End Behavior: |

|  |  |  |
| --- | --- | --- |
|  | Equation: h(x) = x3 – 2x2 – 3x | Graph:  |
| Intercepts:End Behavior: |