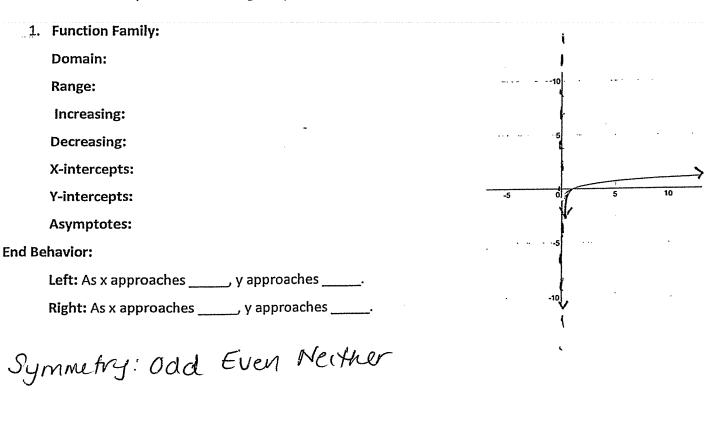
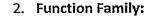
| Name: |  | Hour: |  |
|-------|--|-------|--|
|-------|--|-------|--|

## Family Functions Test Review

| Write equation of the . fu | nction and sketch its graph. (You f | fill in a and n, and b, when Exponential Growth applicable) |  |  |  |  |
|----------------------------|-------------------------------------|---|--|--|--|--|
| Polynomial Even            | Radical Odd                         | Exponential Growth applicable                               |  |  |  |  |
| Equation:                  | Equation:                           | Equation:   |  |  |  |  |
| ×                          | *                                   | ×   |  |  |  |  |
| y                          | у                                   | У   |  |  |  |  |
| Rational (ever)            | Polynomial Odd                      | Logarithm   |  |  |  |  |
| Equation:                  | Equation:                           | Equation:   |  |  |  |  |
| ×                          | *                                   | ×   |  |  |  |  |
| у                          | у                                   | y   |  |  |  |  |
| Trigonometric (sin)        | Exponential Decay                   | Trigonometric (cos)   |  |  |  |  |
| Equation:                  | Equation:                           | Equation:   |  |  |  |  |
| ×                          | x                                   | ×   |  |  |  |  |
| v v                        | У                                   |   |  |  |  |  |

Determine all the key features on the given parent functions.





Domain:

Range:

Increasing:

Decreasing:

X-intercepts:

Y-intercepts:

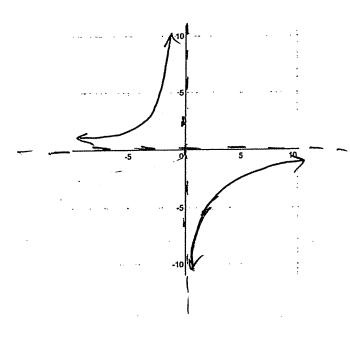
**Asymptotes:** 

## **End Behavior:**

**Left:** As x approaches \_\_\_\_\_, y approaches \_\_\_\_\_.

Right: As x approaches \_\_\_\_\_, y approaches \_\_\_\_\_.

Symmetry: odd Even Neither



| •      |                                      |  |     |     |   |     |  |              |
|--------|--------------------------------------|--|-----|-----|---|-----|--|--------------|
| Fcn    | Fams Reviews.                        | . • • *  |     |     |   |     |  | <i>2</i> ⊭   |
| 3.     |                                      | <u></u>  |     | 6   |   |     |  | ZT           |
|        | Domain:                              |  |     |     |   |     |  |              |
|        | Range:                               |  |     | 4   |   |     |  |              |
|        | Increasing:                          |  |     |     |   |     |  | ayah Tapanga |
|        | Decreasing:                          | era argumentaria de laborar estado es |     | ~   |   |     |  |              |
|        | X-intercepts:                        |  |     | 2 0 | / | 2 4 |  | 6            |
|        | Y-intercepts:                        | -6   |     |     |   |     |  |              |
|        | Asymptotes:                          |  |     | 2   |   |     | and the second s |              |
| End Be | ehavior:                             |  |     |     |   |     |  |              |
|        | Left: As x approaches, y approaches  |  |     |     |   |     |  |              |
|        | Right: As x approaches, y approaches |  |     |     |   |     |  |              |
| ~ q1   | nmetry: Odd Even Neit                |  |     |     |   |     |  |              |
| 4.     | Function Family:                     | 2  |     |     |   | -   | _  | 7            |
|        | Domain:                              |  |     |     |   | T   |  |              |
|        | Range:                               |  |     |     |   |     |  |              |
|        | Increasing:                          |  |     |     |   |     |  | 1            |
|        | Decreasing:                          |  |     | 2   |   | 3   | 4  | 5            |
|        | X-intercepts:                        |  | !   | •   |   |     |  |              |
|        | Y-intercepts:                        |  |     |     |   |     | L_   |              |
|        | Asymptotes:                          | •••  | •   |     |   |     |  |              |
| End Be | ehavior:                             |  |     |     |   |     |  |              |
|        | Left: As x approaches, y approaches  |  |     |     |   |     |  |              |
|        | Right: As x approaches, y approaches |  |     |     |   |     |  |              |
| Sy     | mmetry: Odd Even                     | Vect   | her | -   |   |     |  |              |

.....