

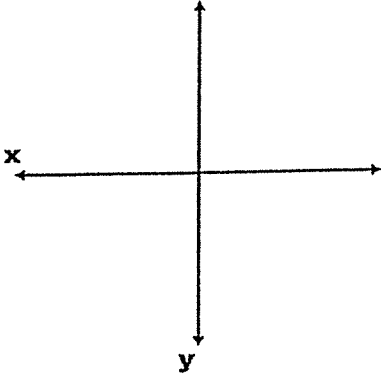
Name: _____ Hour: _____

Family Functions Test Review

Write equation of the _____ function and sketch its graph. (You fill in a and n , and b , when applicable.)

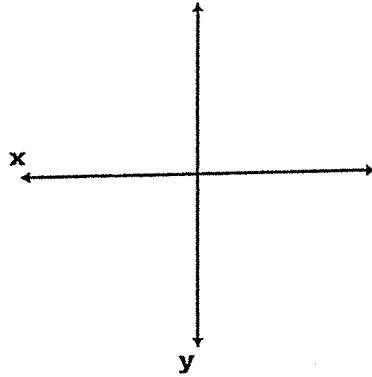
Polynomial Even

Equation:



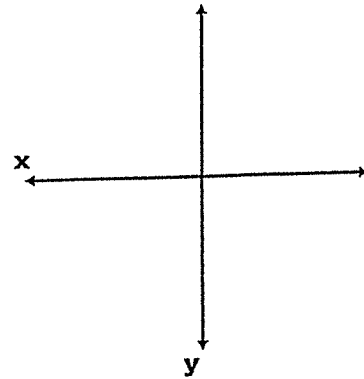
Radical Odd

Equation:



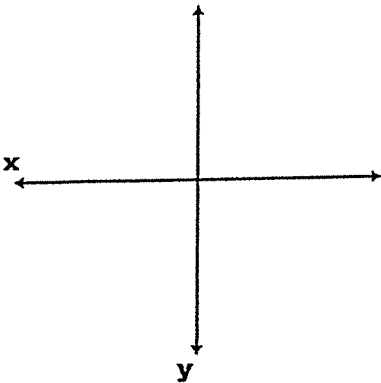
Exponential Growth

Equation:



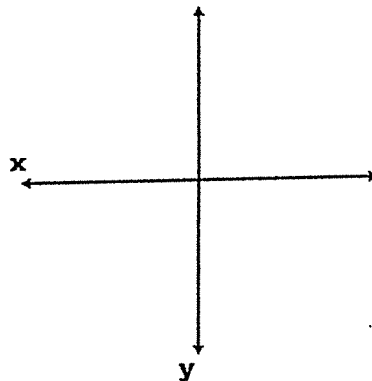
Rational (even)

Equation:



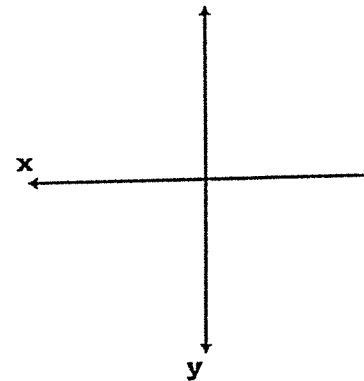
Polynomial Odd

Equation:



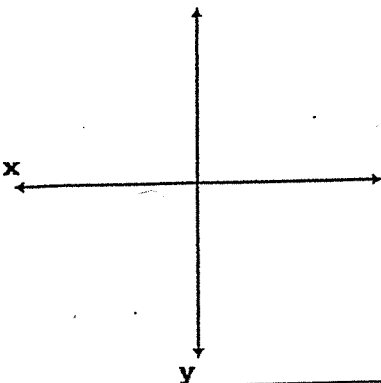
Logarithm

Equation:



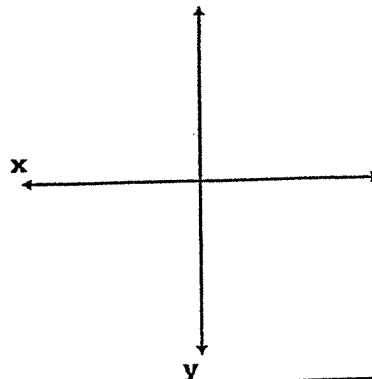
Trigonometric (sin)

Equation:



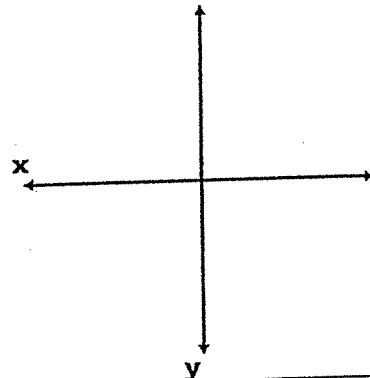
Exponential Decay

Equation:



Trigonometric (cos)

Equation:



Determine all the key features on the given parent functions.

1. Function Family:

Domain:

Range:

Increasing:

Decreasing:

X-intercepts:

Y-intercepts:

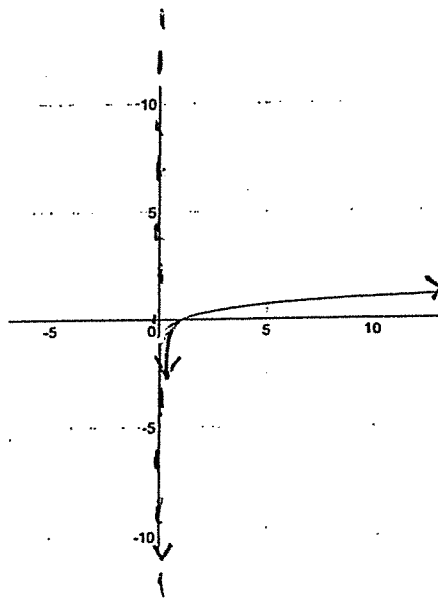
Asymptotes:

End Behavior:

Left: As x approaches _____, y approaches _____.

Right: As x approaches _____, y approaches _____.

Symmetry: Odd Even Neither



2. Function Family:

Domain:

Range:

Increasing:

Decreasing:

X-intercepts:

Y-intercepts:

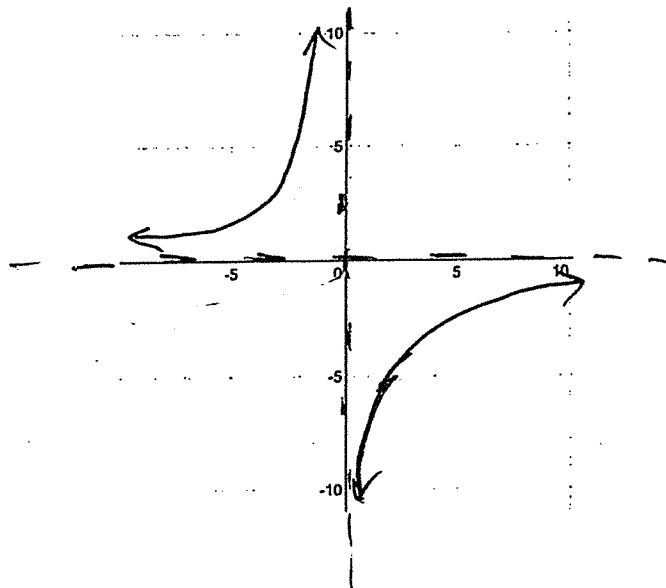
Asymptotes:

End Behavior:

Left: As x approaches _____, y approaches _____.

Right: As x approaches _____, y approaches _____.

Symmetry: Odd Even Neither



Fun Fams Review

3. Function Family:

Domain:

Range:

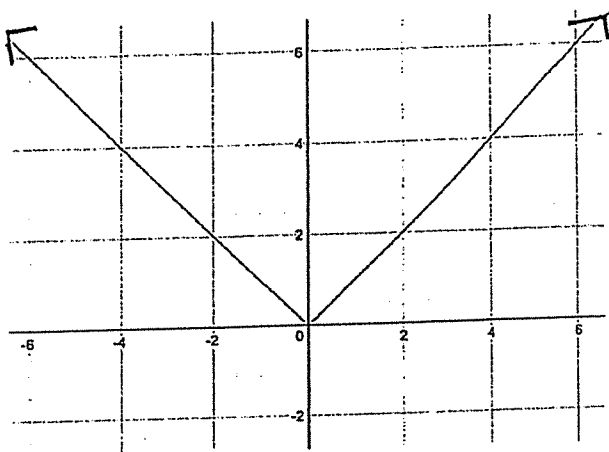
Increasing:

Decreasing:

X-intercepts:

Y-intercepts:

Asymptotes:



End Behavior:

Left: As x approaches $-\infty$, y approaches ∞ .

Right: As x approaches ∞ , y approaches ∞ .

Symmetry: Odd Even Neither

4. Function Family:

Domain:

Range:

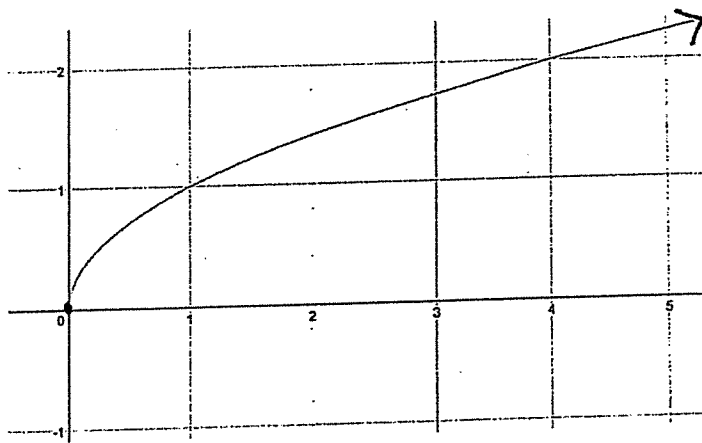
Increasing:

Decreasing:

X-intercepts:

Y-intercepts:

Asymptotes:



End Behavior:

Left: As x approaches 0, y approaches 0.

Right: As x approaches ∞ , y approaches ∞ .

Symmetry: Odd Even Neither

