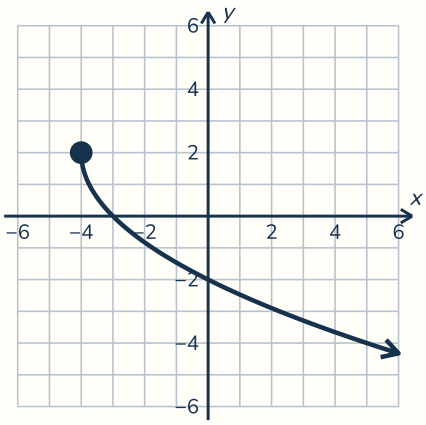
Key features of a graph — Five families

Name: _____ Date: _____

Read the key features of each graph. Arrows mean it keeps going.

1



Starting point (−4, 2)

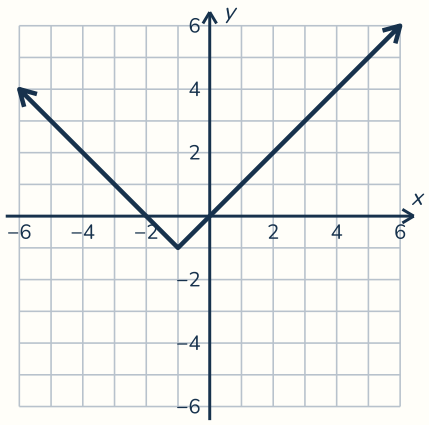
x-intercept −3

y-intercept −2

Increasing on none

Decreasing on (−4, ∞)

2



Vertex _____

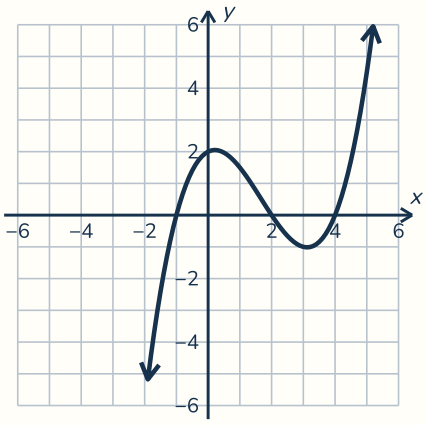
x-intercepts _____

y-intercept _____

Increasing on _____

Decreasing on _____

3



x-intercepts _____

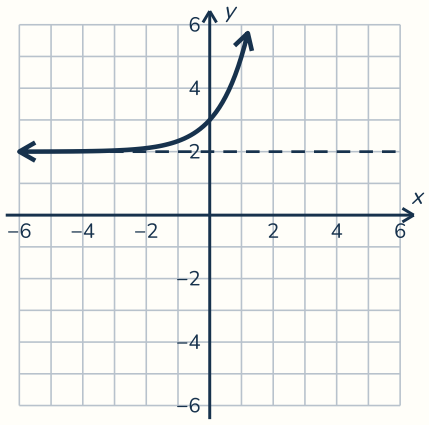
y-intercept _____

x → −∞, y → _____ x → ∞, y → _____

Positive on

_____

4



Asymptote _____

x-intercept _____

y-intercept _____

Increasing on _____

Decreasing on _____

Key features of a graph · Five families — Answer key

1. Starting point $(-4, 2)$; x-intercept -3; y-intercept -2; Increasing on none; Decreasing on $(-4, \infty)$

2. Vertex $(-1, -1)$; x-intercepts -2, 0; y-intercept 0; Increasing on $(-1, \infty)$; Decreasing on $(-\infty, -1)$

3. x-intercepts -1, 2, 4; y-intercept 2; $x \to -\infty$, $y \to -\infty$; $x \to \infty$, $y \to \infty$; Positive on $(-1, 2) \cup (4, \infty)$

4. Asymptote $y = 2$; x-intercept none; y-intercept 3; Increasing on $(-\infty, \infty)$; Decreasing on none