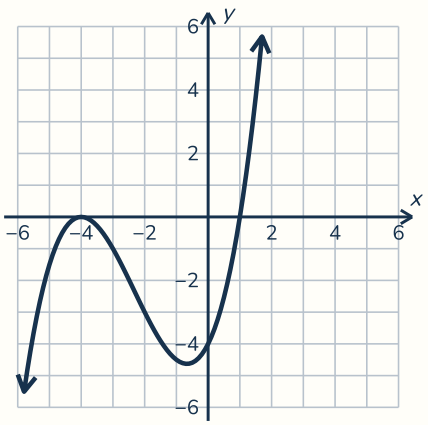
Key features of a graph — Cubics

Name: _____ Date: _____

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

1



x-intercepts −4, 1

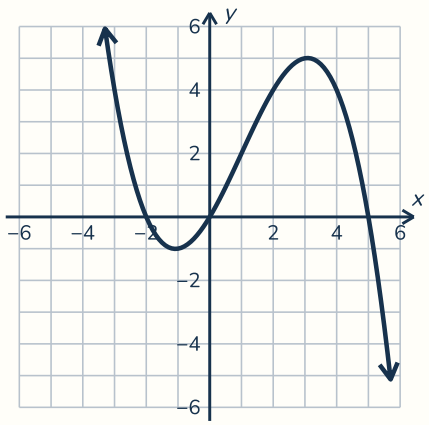
y-intercept −4

x → −∞, y → −∞ x → ∞, y → ∞

Positive on

(1, ∞)

2



x-intercepts _____

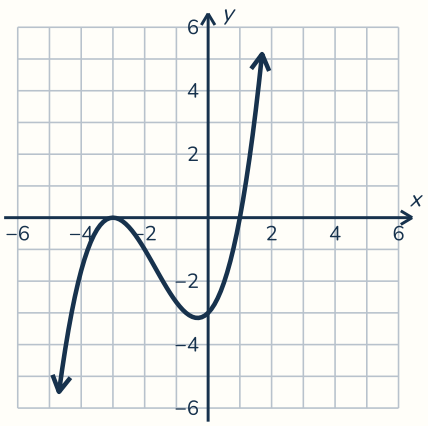
y-intercept _____

x → −∞, y → _____ x → ∞, y → _____

Positive on

_____

3



x-intercepts _____

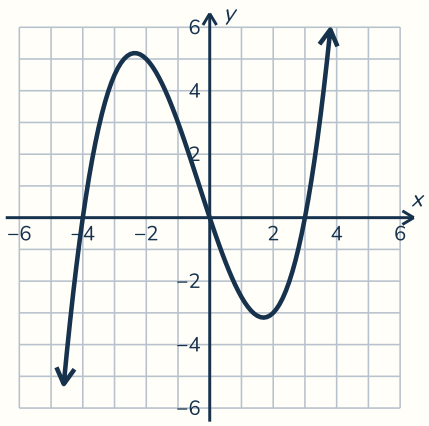
y-intercept _____

x → −∞, y → _____ x → ∞, y → _____

Positive on

_____

4



x-intercepts _____

y-intercept _____

x → −∞, y → _____ x → ∞, y → _____

Positive on

_____

Key features of a graph · Cubics — Answer key

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

2. x-intercepts -2, 0, 5; y-intercept 0; $x \to -\infty$, $y \to \infty$; $x \to \infty$, $y \to -\infty$; Positive on $(-\infty, -2) \cup (0, 5)$

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

4. x-intercepts -4, 0, 3; y-intercept 0; $x \to -\infty$, $y \to -\infty$; $x \to \infty$, $y \to \infty$; Positive on $(-4, 0) \cup (3, \infty)$