

HW: Key Features of Function Graphs

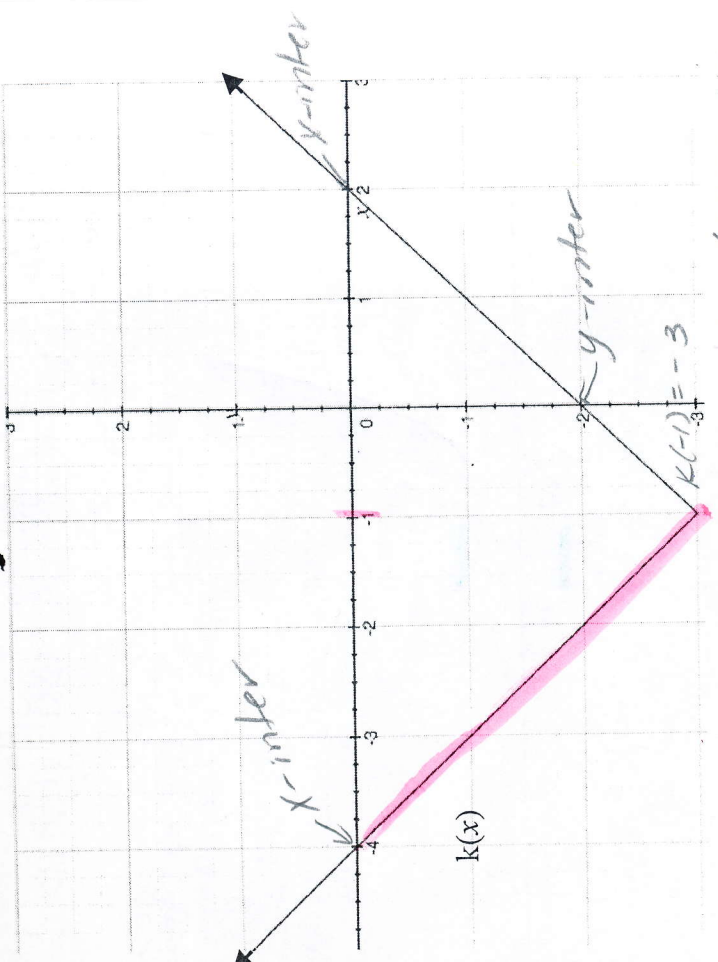
Name: Key

Alg. 1H - March 8

glue on page 71
Created for you by Ms. Nhotsoubarh



- a) Where is the function decreasing? $(-\infty, -2]$ and $(-1, \infty)$ or $-\infty < x < -2$ & $-1 < x < \infty$
- b) x-intercept: none
- c) y-intercept: (0, -3)
- d) Maximum: none
- e) Minimum: none
- f) Find $h(-1) =$ 2
- g) Domain: all real #s
- h) Range: all real #s except $-1 < y \leq 1$



Is the graph increasing from $x = -4$ to $x = -1$? no, decreasing

x-intercept: $(-4, 0)$ and $(2, 0)$

y-intercept: $(0, -2)$

Find $k(-1) =$ -3

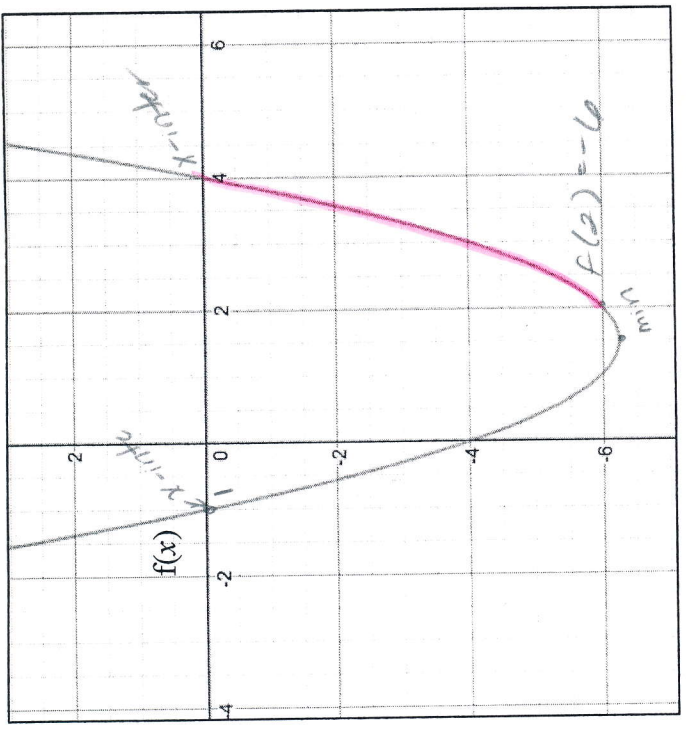
Maximum: none

Minimum: at $(-1, -3)$

Domain: all real #s

Range: $y \geq -3$ or $[-3, \infty)$

What is the equation of this function?



3.

a) Is the graph increasing or decreasing from $2 < x < 4$? increasing

b) x-intercept: $(-1, 0)$ & $(4, 0)$

c) y-intercept: $(0, -4)$

d) Evaluate $f(2) =$ -6

e) Maximum: none

f) Minimum: $y \geq -6.25$

g) Domain: all real #s

h) Range: $y \geq -6.25$

i) What is the equation of this function?

$x = -1, x = 4$
 $(x+1)(x-4) = 0$
 $f(x) = x^2 - 3x - 4$