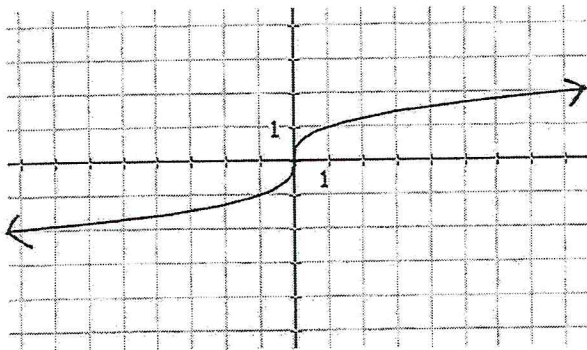


## Content from the Parent Functions Unit

Identify the parent function and each of the key features listed for each graph. (YES, YOU WILL SEE THIS ON THE TEST.)

17)



Function Family: cubic root

Domain:  $(-\infty, +\infty)$

Range:  $(-\infty, +\infty)$

Increasing Interval:  $(-\infty, +\infty)$

Decreasing Interval: N/A

x-intercepts:  $(0, 0)$

y-intercepts:  $(0, 0)$

Asymptotes: none

End-Behavior:

Left:

$x \rightarrow -\infty$

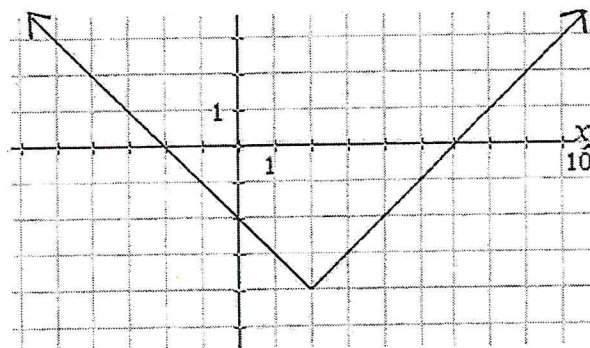
$y \rightarrow -\infty$

Right:

$x \rightarrow +\infty$

$y \rightarrow +\infty$

18)



Function Family: absolute value

Domain:  $(-\infty, +\infty)$

Range:  $[-4, +\infty)$

Increasing Interval:  $(2, +\infty)$

Decreasing Interval:  $(-\infty, 2)$

x-intercepts:  $(-2, 0), (6, 0)$

y-intercepts:  $(0, -4)$

Asymptotes: none

End-Behavior:

Left:

$x \rightarrow -\infty$

$y \rightarrow +\infty$

Right:

$x \rightarrow +\infty$

$y \rightarrow +\infty$