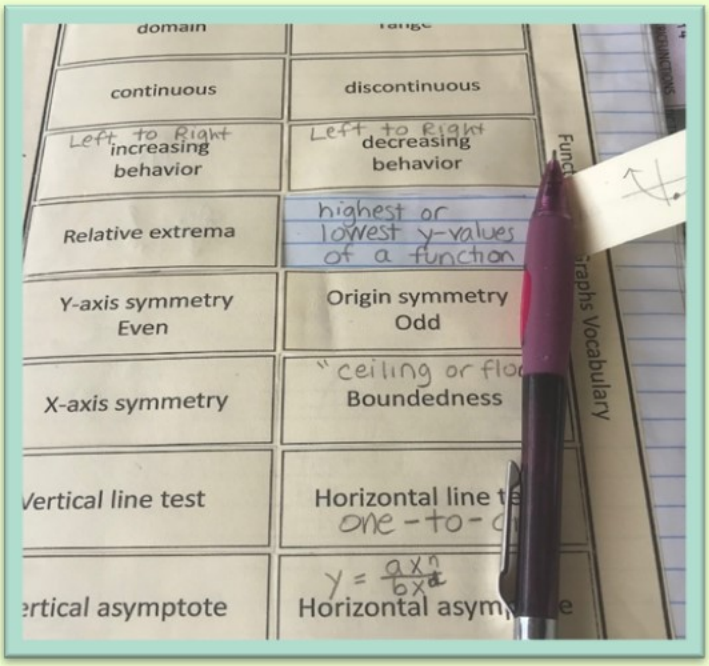
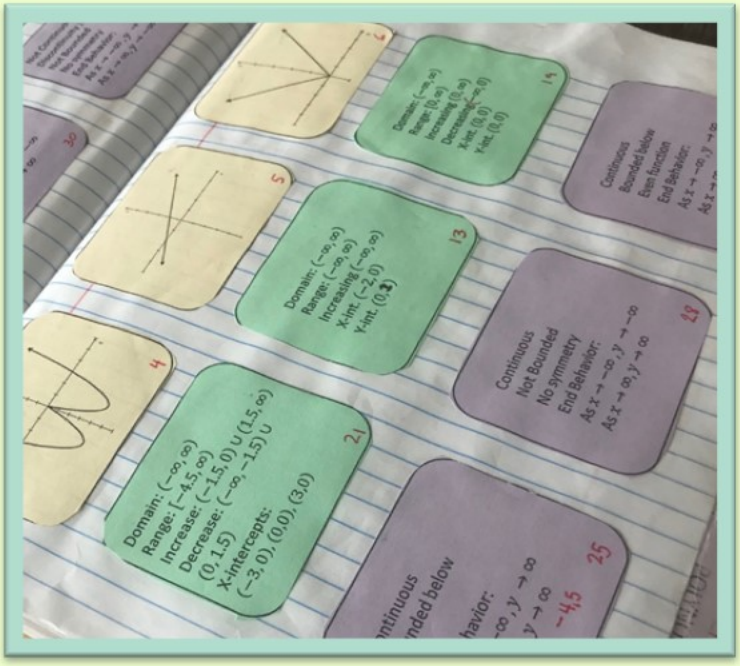
Precalculus Honors

Function Vocabulary

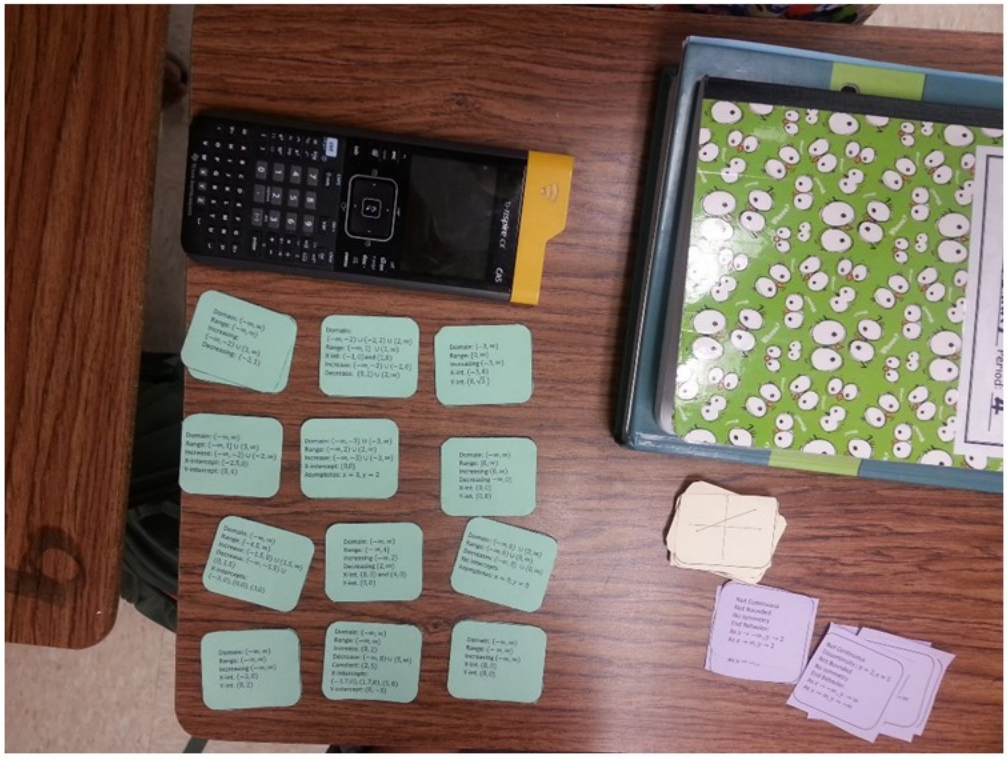
Task Cards

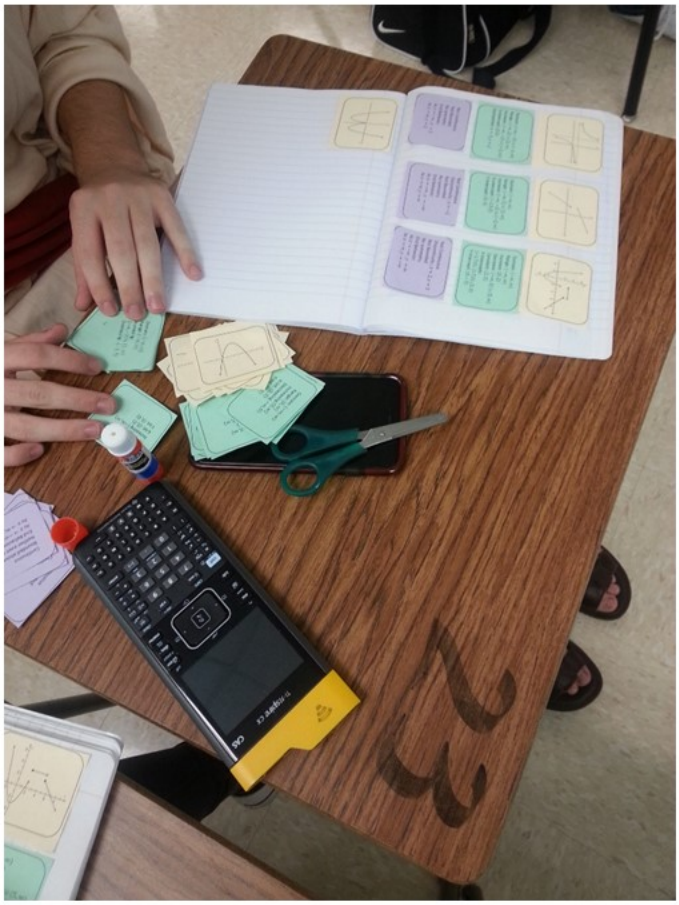


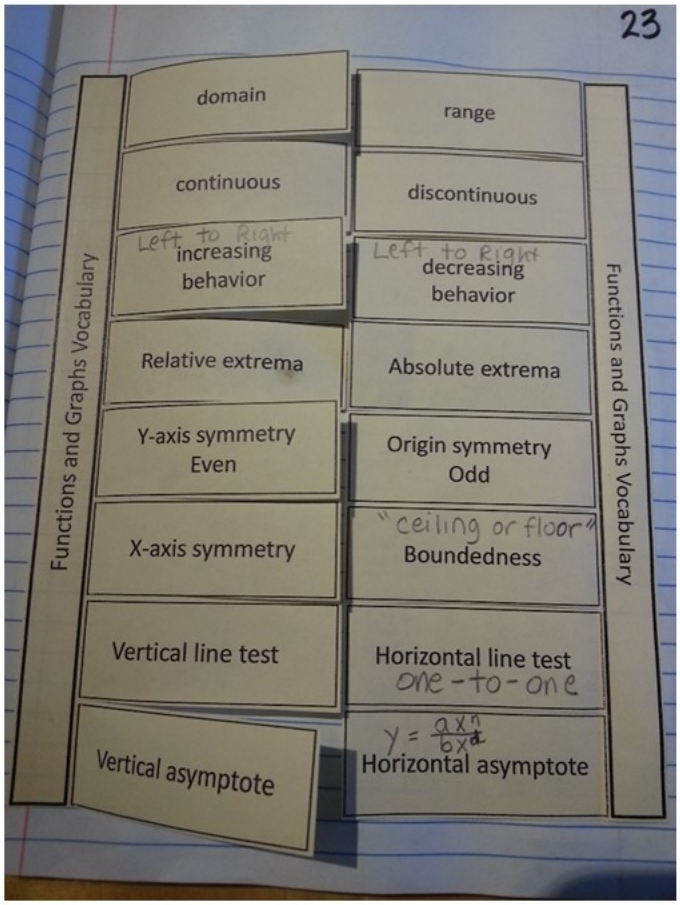


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Activity in Use:

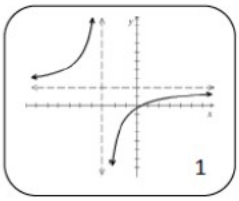


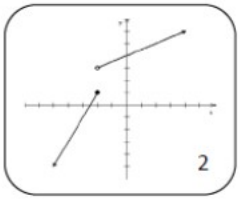


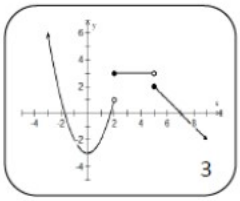


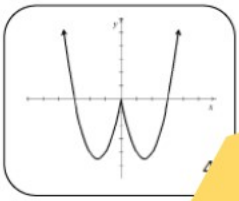
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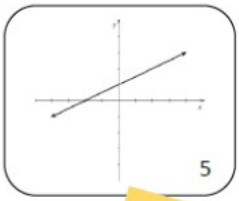
FUNCTION GRAPHS

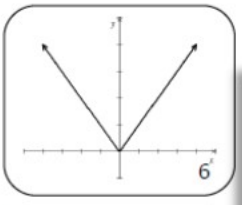

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6

Domain, Range, Intercepts, Asymptotes, Increase, Decrease

Domain: $(-\infty, \infty)$
Range: $(-\infty, \infty)$
Increasing $(-\infty, \infty)$
X-int. $(-2, 0)$
Y-int. $(0, 2)$
13

Domain: $(-\infty, 0) \cup (0, \infty)$
Range: $(-\infty, 0) \cup (0, \infty)$
Decreases: $(-\infty, 0) \cup (0, \infty)$
No intercepts
Asymptotes: $x = 0, y = 0$
14

Domain: $(-\infty, -3) \cup (-3, \infty)$
Range: $(-\infty, 2) \cup (2, \infty)$
Increase: $(-\infty, -3) \cup (-3, \infty)$
X-intercept: (0,0)
Asymptotes: $x = 3, y = 2$
15

Domain: $(-\infty, \infty)$
Range: $(-\infty, 1] \cup (3, \infty)$
Increase: $(-\infty, -2) \cup (-2, \infty)$
X-intercept: $(-2.5, 0)$
Y-intercept: $(0, 4)$
16

Domain: $(-\infty, \infty)$
Range: $(-\infty, \infty)$
Increasing $(-\infty, \infty)$
X-int. $(0, 0)$
Y-int. $(0, 0)$
18

Domain: $(-\infty, \infty)$
Range: $[0, \infty)$
Increasing $(0, \infty)$
Decreasing $-\infty, 0)$
X-int. $(0, 0)$
Y-int. $(0, 0)$
19

Domain:
$(-\infty, -2) \cup (-2, 2) \cup (2, \infty)$
Range: $(-\infty, 1) \cup (1, \infty)$
X-int: $(-1, 0)$and $(1,0)$
Increase: $(-\infty, -2) \cup (-2, 0)$
Decrease: $(0, 2) \cup (2, \infty)$
20

Domain: $(-\infty, \infty)$
Range: $[-4.5, \infty)$
Increase: $(-1.5, 0) \cup (1.5, \infty)$
Decrease: $(-\infty, -1.5) \cup$

Domain: $(-\infty, \infty)$
Range: $(-\infty, \infty)$
Increase: $(0, 2)$
Decrease: $(-\infty, 0) \cup (5, \infty)$

Domain: $[-3, \infty)$
Range: $[0, \infty)$
Increasing $(-3, \infty)$
X-int. $(-3, 0)$
Y-int. $(0, \sqrt{3})$

Domain: $(-\infty, \infty)$
Range: $(-\infty, \infty)$
Increasing:
$(-\infty, -2) \cup (1, \infty)$
Decrea
24

Continuity, Boundedness, Even, Odd, End Behavior

Continuous
Bounded below
Even
End Behavior:
As $x \to -\infty, y \to \infty$
As $x \to \infty, y \to \infty$
25

Continuous
Bounded below
Even function
End Behavior:
As $x \to -\infty, y \to \infty$
As $x \to \infty, y \to \infty$
26

Not Continuous
Discontinuity ; $x = 2, x = 5$
Not Bounded
No symmetry
End Behavior:
As $x \to -\infty, y \to \infty$
As $x \to \infty, y \to -\infty$
27

Continuous
Not Bounded
No symmetry
End Behavior:
As $x \to -\infty, y$
As $x \to \infty$

Not Continuous
Not Bounded
No symmetry
End Behavior:
As $x \to -\infty, y \to 2$
As $x \to \infty, y \to 2$
29

Not Continuous
Discontinuity ; $x = -2$
Not Bounded
No symmetry
End Behavior:
As $x \to -\infty, y \to -\infty$
As $x \to \infty, y \to \infty$
30

Continuous
Bounded above
Neither even nor odd
End Behavior:
As $x \to -\infty, y \to -\infty$
As $x \to \infty, y \to -\infty$
31

Cubic Function
End Behavior:
As $x \to -\infty, y$
As $x \to \infty, y \to$

Continuous
Not Bounded
Odd
End Behavior:
As $x \to -\infty, y \to -\infty$
As $x \to \infty, y \to \infty$
33

Not Continuous
Not Bounded
Origin symmet
End Behavior:
As $x \to -\infty,$
As $x \to \infty, y$

Continuous
Bounded below
Neither even nor odd
End Behavior:
$\ldots, y \to 0$

Not Continuo
Not Bounded
Even
End Behavior:
As $x \to -\infty, y$
As $x \to \infty, y$

FUNCTIONS VOCABULARY NOTEBOOK FOLDABLE

Graphs Vocabulary		Functions and Graphs Vocabulary
domain	range	
continuous	discontinuous	
increasing behavior	decreasing behavior	
Relative extrema	Absolute extrema	
Y-axis symmetry Even	Origin symmetry Odd	
X-axis symmetry	Boundedness	
Vertical line test	Horizontal line test	
Vertical asymptote	Horizontal asymptote	