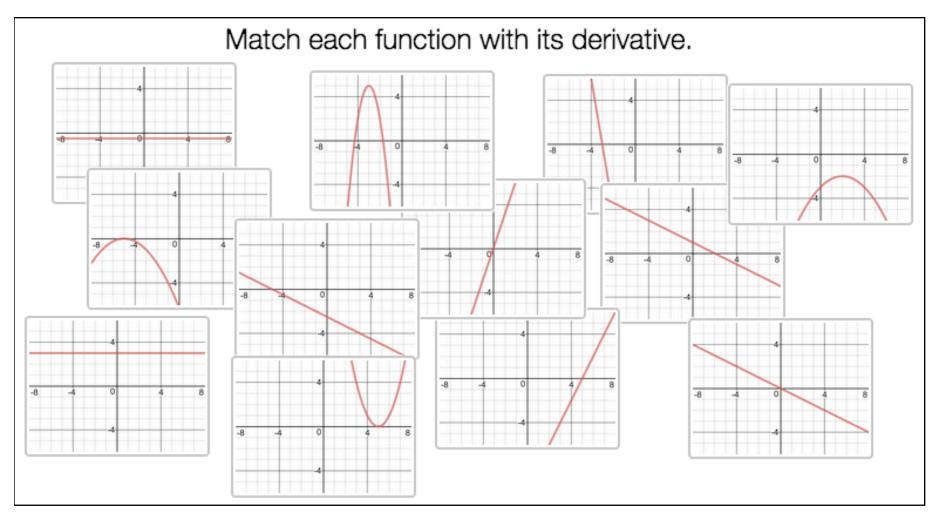
### Making Connections with Card Sorts

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Whatcom Community College

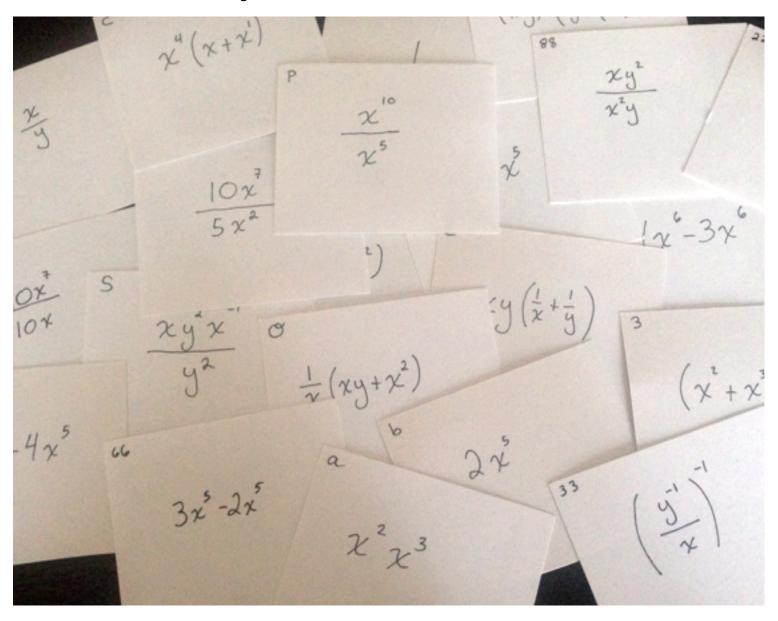
MathFest
2 August 2018

#### Virtual Card Sorts

#### Virtual Card Sorts



**Desmos Card Sort: Derivative Match** 



• No devices required

- No devices required
- Can be produced quickly and cheaply

- No devices required
- Can be produced quickly and cheaply
- Focus for in-class groupwork

- No devices required
- Can be produced quickly and cheaply
- Focus for in-class groupwork
- Produces a different kind of group engagement

## Concept Check

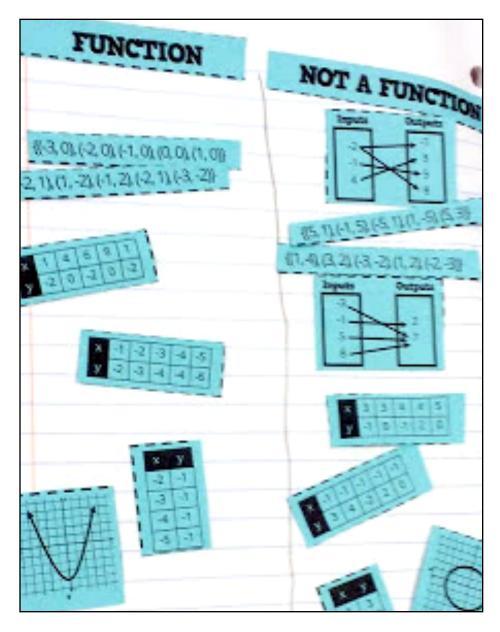
### Concept Check

Example: Function or Not?

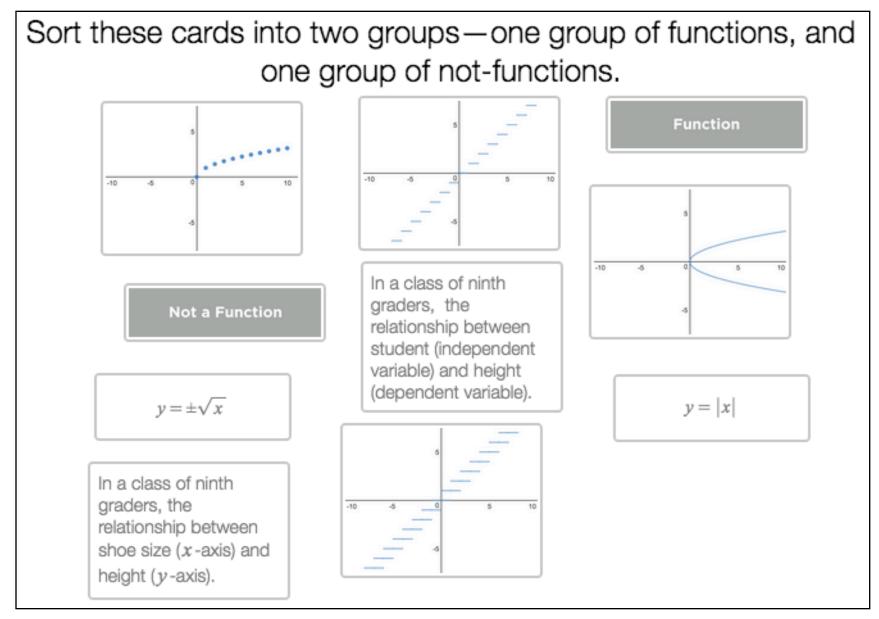
### Concept Check

Example: Function or Not?

Students are given a mix of graphs, equations, tables, relation maps, or descriptions, and sort them into functions and non-functions.



Math Equals Love Blog: Function or Not a Function Card Sort



**Desmos Card Sort: Functions** 

## Moving to the Next Level

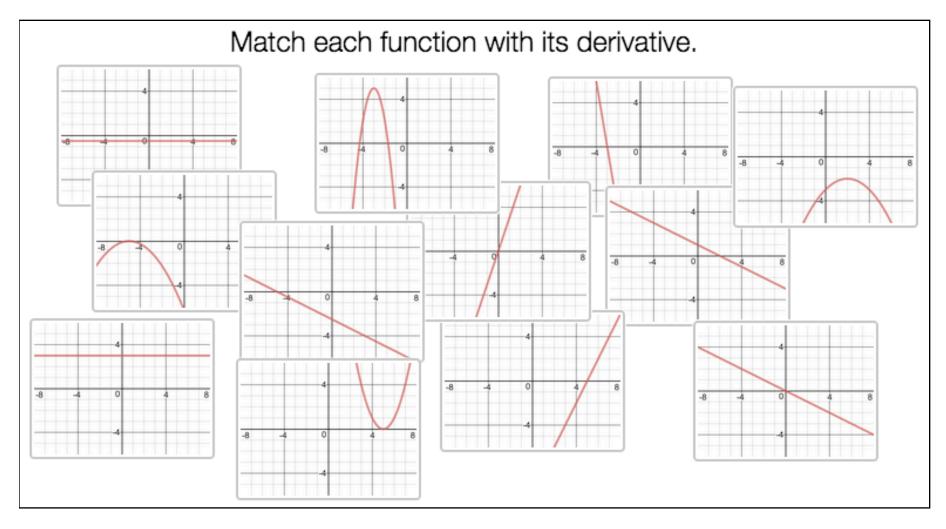
### Moving to the Next Level

Example: Derivative Match

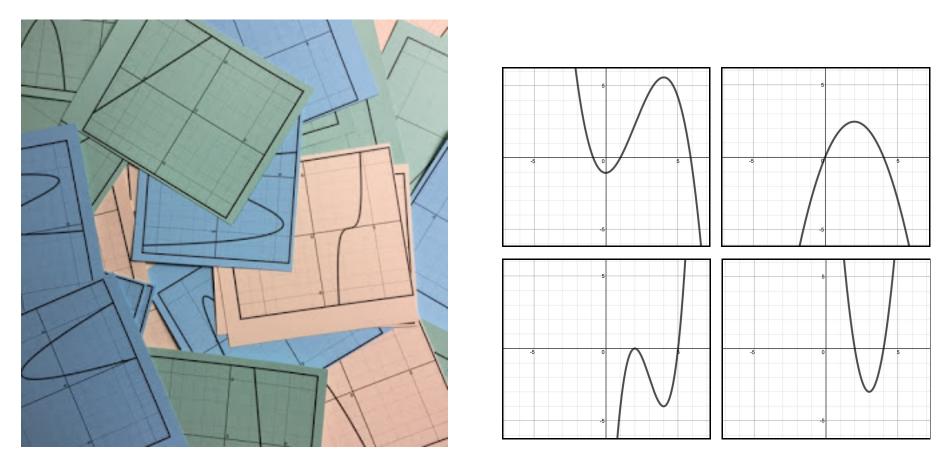
### Moving to the Next Level

Example: Derivative Match

Students are given a set of graphs, and must find pairs that represent a function and its derivative (or a function and its integral).

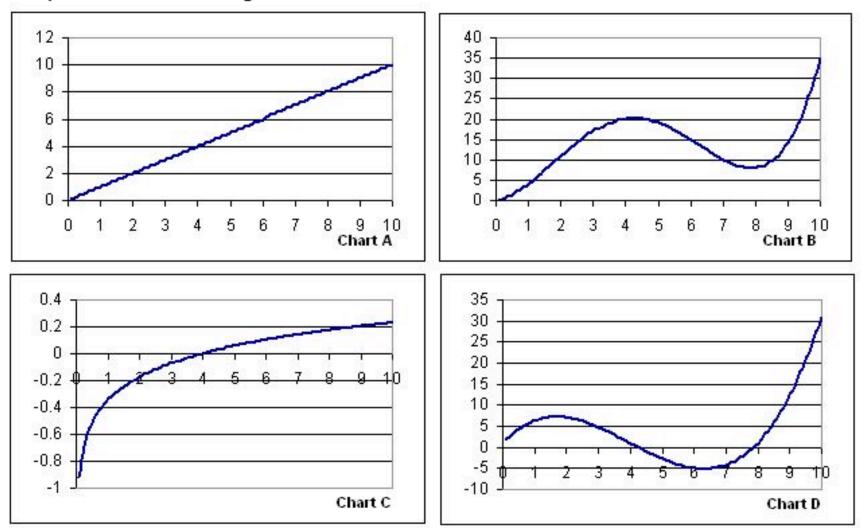


**Desmos Card Sort: Derivative Match** 



Engaging Math Blog: Derivative Matching Cards

The graphs of six functions and the graphs of their integrals have been mixed up below. Can you match them together?



NRichMaths.org: Integration Matcher

## Summative Activity

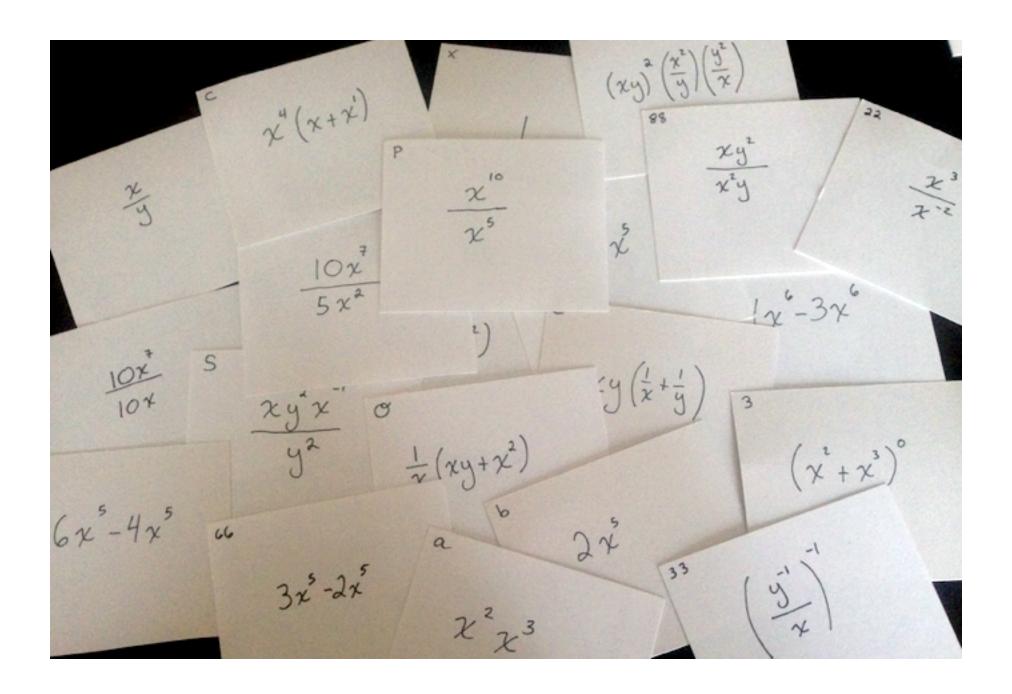
### Summative Activity

Example: Exponents

### Summative Activity

Example: Exponents

Students are given a set of cards with algebraic expressions involving exponents, and must sort them into piles of equivalent expressions.



Determine which expressions are equivalent to each other. Assume that all variables are not equal to zero. When finished, you should have 12 sets of equivalent expressions; not all sets have the same number of elements. List the labels for each of the sets of equivalent expressions below.

# Prerequisite Review

## Prerequisite Review

Example: Lines

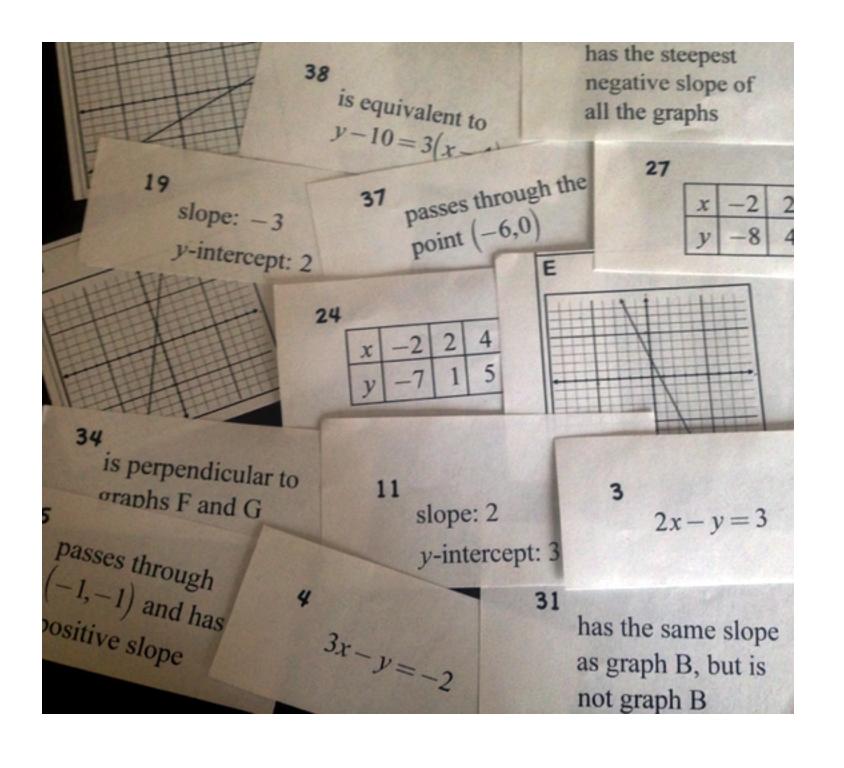
### Prerequisite Review

Example: Lines

Students are given a mixed set of cards with graphs, tables of points, standard form equations, paired slopes & y-intercepts, and descriptions. Each line is represented by one card of each type, which students must match together.

Match each graph to its equation, its slope and y-intercept, its table of values, and its description.

Graph	Equation (1-10)	Slope & y-intercept (11-20)	Table (21-30)	Description (31-40)
A				
В				
С				
D				
Е				
F				
G				
Н				
I				
J				



Questions?

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