

## Engaging Students in Seeing Structure in Mathematics

NCTM 2018 \* Washington DC

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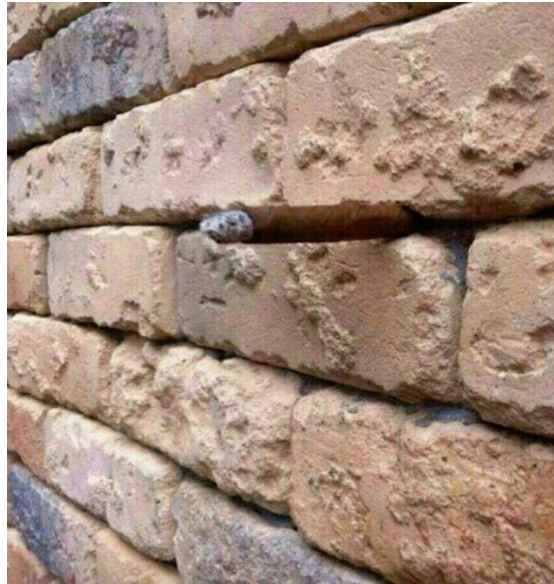
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## Visual #1

Do you see it?



## Visual #2

## Student work that radically shifted me as a teacher.

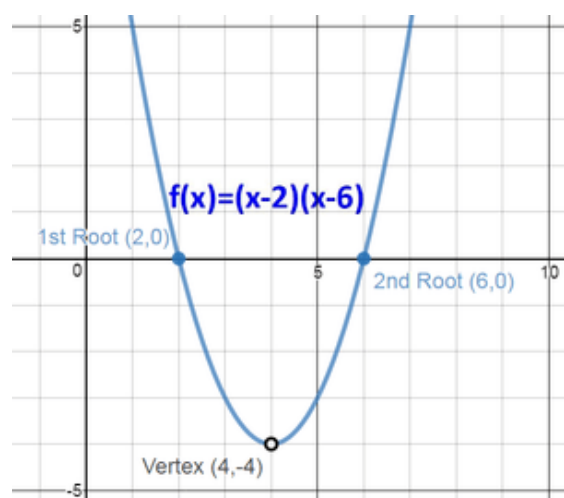
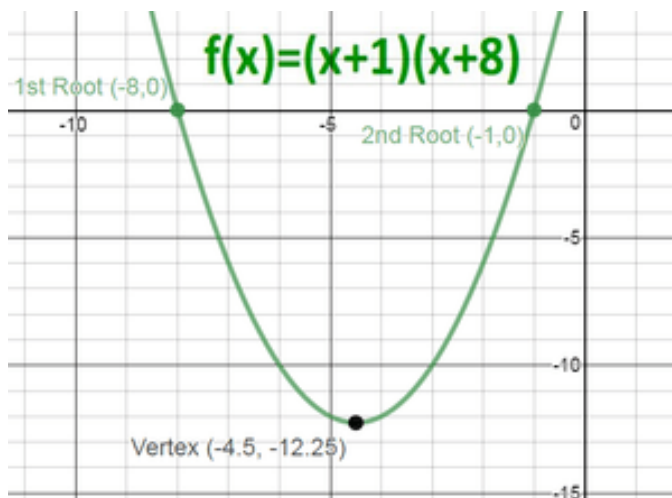
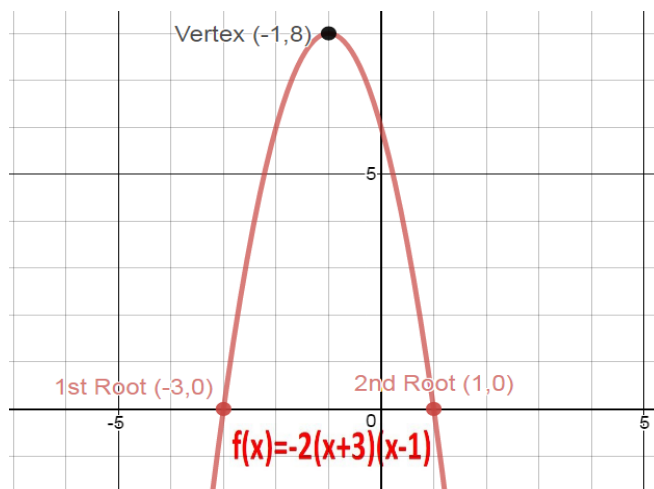
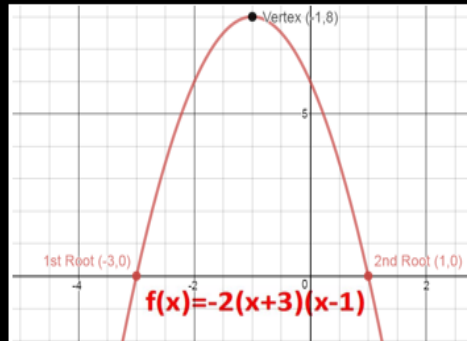
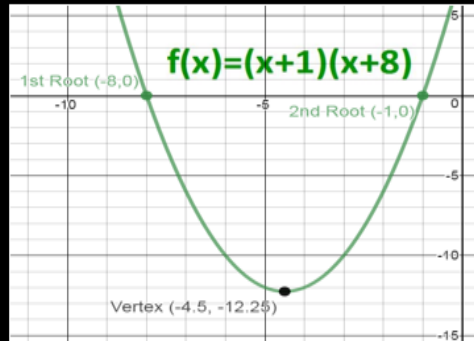
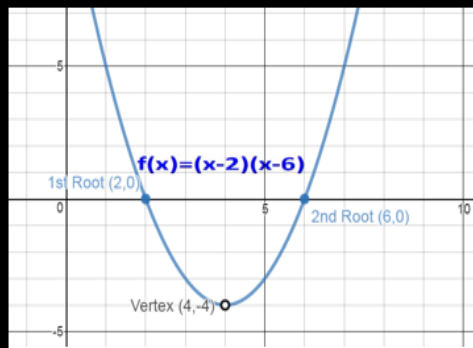
10). Rewrite the fractions so they are from smallest to largest.

[illegible]

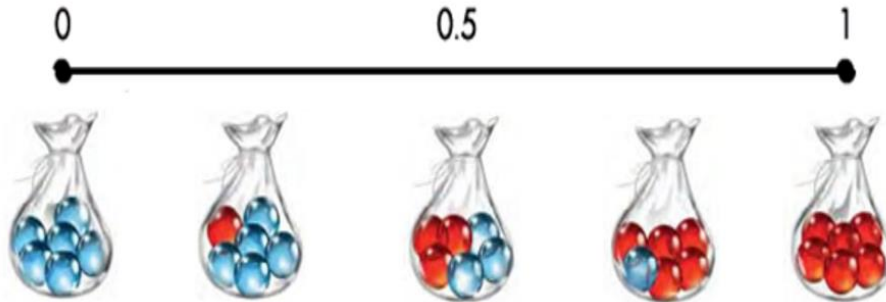
## Visual #3

Do you see it?

What do  
you notice?



**Visual #4**  
**Stand & Talk #1**



**Visual #5**  
**Stand & Talk #2**

**What do you notice?**

$$\sum_{n=3}^6 (2n-1) = (2 \cdot 3 - 1) + (2 \cdot 4 - 1) + (2 \cdot 5 - 1) + (2 \cdot 6 - 1) = 32$$

**Find the rest of my resources at:**  
**[Saravanderwerf.com](http://Saravanderwerf.com)**



**My favorite question to ask  
strangers at conferences.**

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