# Linear and Quadratic Parent Fuctions

## Do Now

First two problems of your new booklet.

y arranged some cans of soup in a triangular
ern on a table. The top row had 2 cans, the
ond row had 4 cans, the third row had 6 cans,
so on. The arrangement is shown below.


ch equation gives the total number of cans in
arrangement, $T$, when the cans are stacked $n$
s high?

$T = \frac{n(n+1)}{2}$

$T = n(n+1)$

$T = \frac{n(n+1)}{2}$

$T = n(n-1)$

| #rows | #cans |
|---|---|
| 1 | 2 |
| 2 | 6 |
| 3 | 12 |

2. The table shows a set of values for $x$ and $y$.

| $x$ | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| $y$ | −4 | 0 | 4 | 8 | 12 |

Which equation best represents this set of data?

A $y = x - 4$
B $y = 3x - 4$
C $y = 2x - 2$
D $y = 4x - 4$

calculator

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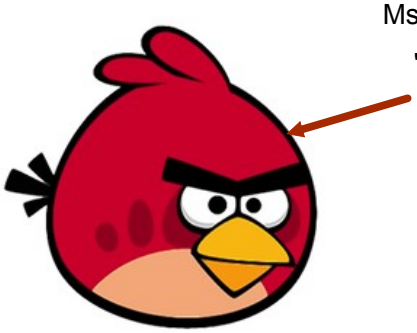
Feb 4-11:40 AM

Ms. Gonzales

"Ms. G"



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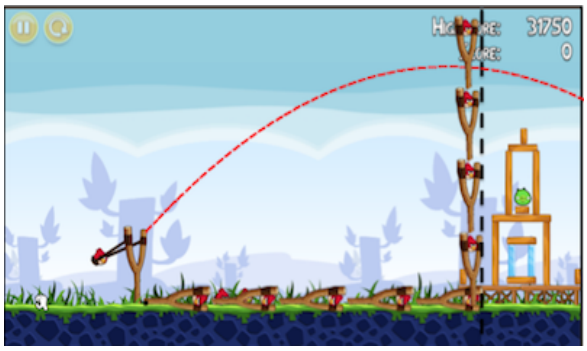


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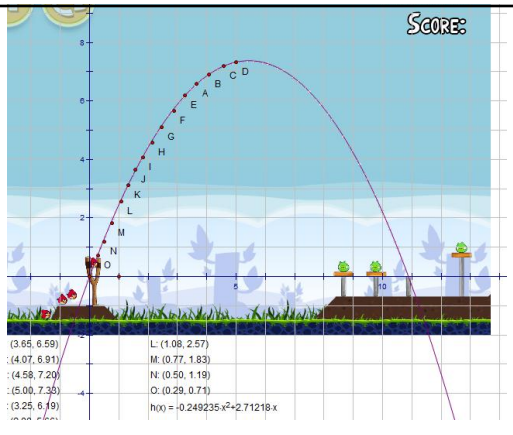


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## Foldable (front)

| | |
|---|---|
| Linear Parent function | Quadratic Parent Function |

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# Linear and Quadratic Parent Fuctions

## Inside top

| Equation | Equation |
| --- | --- |
| $y = x$ | $y = x^2$ |
| $(y = 1x + 0)$ | $(y = 1x^2 + 0x + 0)$ |

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## Inside middle

| Table | | Table | |
| --- | --- | --- | --- |
| x | y | x | y |
| -1 | -1 | -1 | 1 |
| 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 4 |

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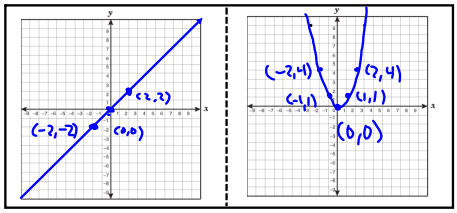
## Inside bottom

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| | |
| --- | --- |
| Domain: all real numbers<br>Range: all real numbers | Domain: all real numbers<br>Range: $y \geq 0$ |

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