Thursday 7 September

1.1 LEARNING TARGET & DO NOW

Learning Target: I can read and interpret table data

- Do Now: Is the point $(2, 4)$ on the line

$$y = 4x - 2$$

- *Calculator check*
- Homework: Khan practice problems link
- **Exit note: Jumprope survey (Google Classroom)**

1. In the xy-plane, the point (3, 5) lies on the graph of the function f. If $f(x) = x^2 + a$, where a is a constant, what is the value of a?

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    - Solution:
    - $f(3) = 3^2 + a = 5$
    - $a = 5 - 9 = -4$

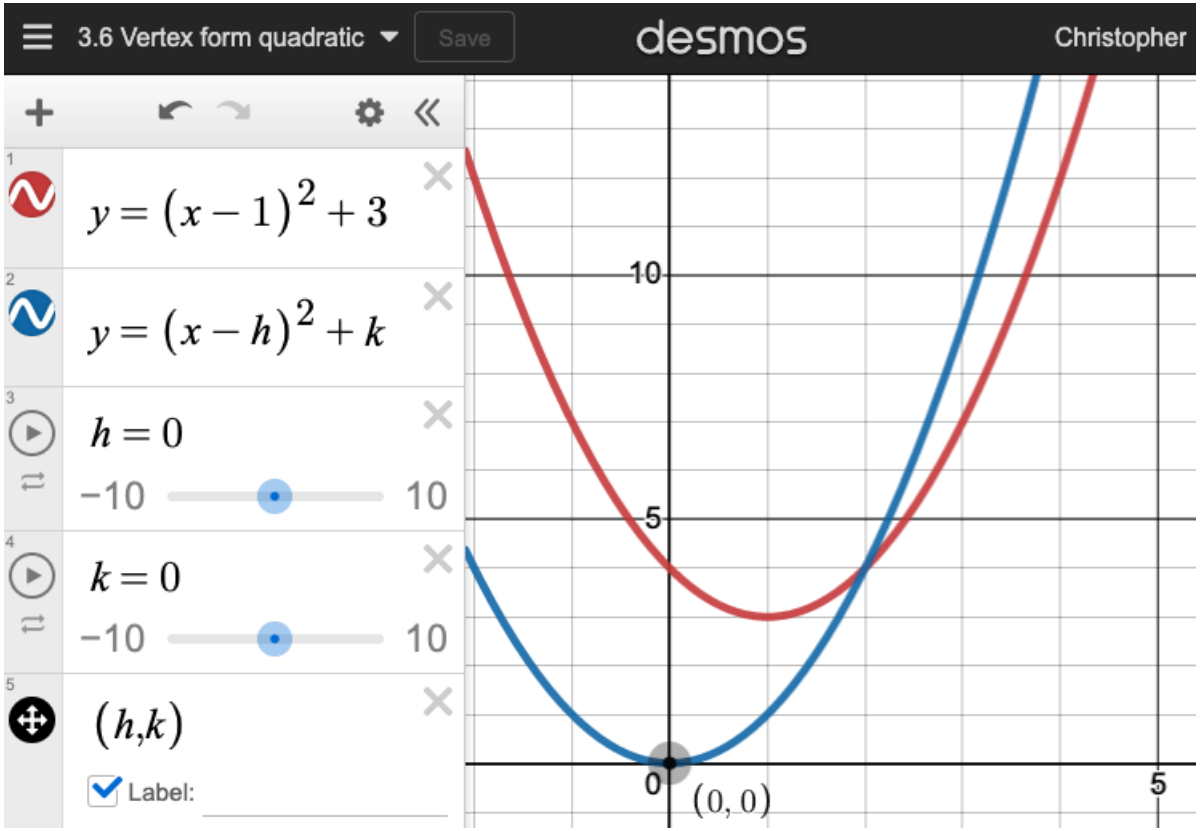
2. A football club is planning a new field. The length of the field will be 40 yards longer than the width. If the area of the field is to be 2100 square yards, what will be the field's dimensions?

   Solution:

$$x(x+40) = 2100$$
$$x^2 + 40x - 2100 = 0$$
$$(x-40)(x+70) = 0$$
$$x = 40, -70$$

$$y = (x - 1)^2 + 3$$

Use this Desmos link to graph $y = (x - h)^2 + k$



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	Bought pints	Did not buy pints	Total
Bought scoops	27	283	310
Did not buy scoops	45	3	48
Total	73	286	358