$$2(2x-3y=13)$$

$$3(5x+2y=17)$$

$$5(\frac{77}{19})+2y=17$$

$$\frac{385}{19}+2y=17$$

$$\frac{385}{19}$$

$$\frac{385}{19}$$

$$\frac{385}{19}$$

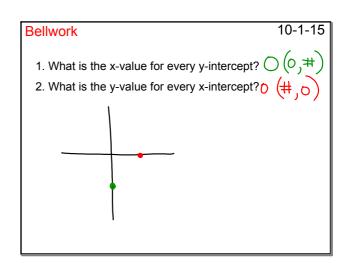
$$\frac{385}{19}$$

$$\frac{395}{19}$$

$$\frac{395}{19}$$

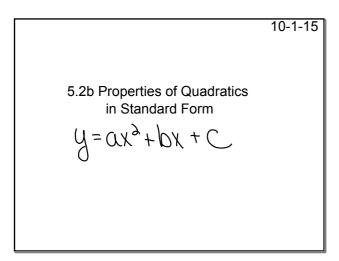
$$\frac{395}{19}$$

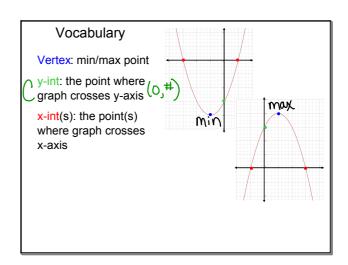
$$\frac{395}{19}$$



Oct 1-11:46 AM

Sep 29-9:13 AM





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How to Find a y-intercept:

- 1. Press 2nd
- 2. Press TRACE
- 3. Select #1 value
- 4. Type in 0 and press ENTER

How to Find an x-intercept:

- 1. Press 2nd
- 2. Press TRACE
- 3. Select #2: zero
- You should see "Left Bound?"
 Type in an x-value to the left of x-int OR
 Move cursor to the left of x-int and press enter.
- You should see "Right Bound?"
 Type in an x-value to the right of x-int OR
 Move cursor to the right of vertex and press ENTER
- 6. You should see "Guess?"

 Type in the x-value for the x-int OR

 Move cursor to the x-int and press ENTER

Sep 29-9:16 AM

Sep 29-9:16 AM

```
Example 1:

y = \int k^2 + 6x - 8

a. Direction of opening? Down

b. Is the vertex a min or max?

c. Vertex? 3, 1) Vertex

d. Axis of symmetry 2 = 3 and Trace

e. y-int? 0 = 8

f. x-ints?

2nd Trace 2 = 8

At Enter

Enter
```

```
Example 2:

y = 2x^2 - 16x + 30

a. Direction of opening? UP

b. Is the vertex a min or max?

c. Vertex? (4, -2)

d. Axis of Symmetry? x = 4

e. y-int? (0,30)

f. x-ints? (3,0) (5,0)
```

Example 3:

$$y = -x^2 - 4x - 8$$

- a. Direction of opening?
- b. Is the vertex a min or max?
- c. Vertex?
- d. Axis of Symmetry?
- e. y-int?
- f. x-ints?

Example 4:

$$y = x^2 - 8x + 12$$

- a. Direction of opening?
- b. Is the vertex a min or max?
- c. Vertex?
- d. Axis of symmetry?
- e. y-int?
- f. x-ints?

Sep 29-12:45 PM

Sep 29-12:45 PM

Example 5:

$$y = x^2 + 4x$$

- a. Direction of opening?
- b. Is the vertex a min or max?
- c. Vertex?
- d. Axis of symmetry?
- e. y-int?
- f. x-ints?

Conclusion

- 1. What is a vertex?
- 2. What is the x-value for every y-int?
- 3. What is the y-value for every x-int?
- 4. Questions???

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| A | Assignment: | |
|---|---------------------------------------|--|
| | rties of Quadratics in andard Form | |

Sep 29-4:29 PM Sep 30-1:09 PM