

## **Cengage Now Hints for Lesson 25 and 26**

### **In general:**

You can visit [www.math.purdue.edu/MA\\_15300](http://www.math.purdue.edu/MA_15300)

and use the discussion board to post questions and/or read responses. Josh will be live on that board MWF from 6-8 pm all semester. If you post a question at a different time, he will respond as soon as he is able. Do not post after 8:00 pm on a due night and expect an immediate answer. He will not help you as a tutor, but may provide some hints. Please do not expect him to solve things for you.

In general, use Mozilla browser with a PC. Internet Explorer can cause technical issues with Cengage Now problems. We recommend using an ITAP computer or following the configuration instructions on the Cengage Now homepage.

If you log in and see a message that says popups are blocked, enter Cengage Now anyway. That error does not affect your assignments. However, a current version of Java must be installed for Cengage Now to work properly. If the system check detects a Java problem, follow the instructions given to correct that.

You can always view the correct answer to each problem after submitting the assignment. Click on “view assignment details”. It will show you what you entered and what the correct answer was. If you log back into the assignment, you will get a different version of the problems that were not correct. Correct problems stay correct and you do not redo them.

### **Lesson 22, 23, and 24 are to be done on paper and pencil from the textbook**

Assignment sheet can be found on the MA 153 webpage:

[www.math.purdue.edu/MA15300](http://www.math.purdue.edu/MA15300)

### **Lesson 25:**

#3 (a) Math hint: Zeros are the same thing as  $x$ -intercepts, except you do not write them as ordered pairs.

(b) Remember to specify if a minimum or maximum before listing the value. For example, if you find the value to be 5 and determine it is a max, then enter as: max, 5.

(c) Same as zeros but enter as ordered pairs.

#5 (c): Math hint: You don't need the quadratic formula for this part. Once you have found the standard form, you can square root both sides of your equation to find the  $x$ -intercepts. For example, the parabola  $y = -4(x+1)^2 + 15$  is in standard form. The  $x$ -intercepts are found in the following steps:

$$0 = -4(x+1)^2 + 15$$

$$\frac{15}{4} = (x+1)^2$$

$$x+1 = \pm\sqrt{\frac{15}{4}}$$

This can be entered as  $\left(-1 \pm \frac{\sqrt{15}}{2}, 0\right)$  or separated as two points

$$x+1 = \pm\frac{\sqrt{15}}{2}$$

$$x = -1 \pm \frac{\sqrt{15}}{2}$$

#6, 7, 8, and 9: Enter y= preceding the standard form

#9 and 10: Math hint: The directions say to find the standard form of the parabola that has a “vertical axis”... Vertical axis just means the parabola opens up or down and we only deal with this type.

### **Lesson 26**

#2 (c): Enter the dimensions as an ordered pair (x,y).

#4: Do not use decimals. Use fractions throughout the problem (if needed) and reduce fractions to lowest terms.