Are you ready for MTH 161?

The purpose of this review is to verify your readiness for MTH 161.

**You do not need to solve these problems.**

Simply review them and answer the three questions below.

* *Do these math problems below look familiar to you?*
* *Have you learned these types of problems in prior math classes?*
* *If you reviewed this material, would you be able to solve most of these problems?*
1. *Simplify the following expressions.*
	1. $(-2x^{3}y^{6})^{3}$ *b.*$\frac{40x^{3}y^{3}}{5x^{4}y^{}}$ *c.* $(5a^{2}b^{3})∙(3b^{2}c^{3})$
2. *Given*$ f(x)= -x^{2 }+6x-11$*, identify the vertex, x- and y- intercepts and sketch the graph.*
3. *Factor the following completely.*
	1. $3b^{3 }-15b^{2 }-42b$
	2. $8x^{3}z-27y^{6}z$
	3. $4x^{2 }-8x-16$
4. *Solve the following equations.*
	1. $2x^{2 }=x+3$
	2. $\sqrt{x+3}=5$
	3. $\frac{3}{x}+\frac{2}{x+1}=\frac{3}{x+1}$
5. *Solve the inequality and sketch your solution on a number line.*

$$2x-3<3x+5$$

1. *Find the equation of the line in Slope-intercept form passing through the points* $(-2,5)$*and*$(0,2)$*.*

**COURSE PLACEMENT RECOMMENDATIONS**

* If you answered yes to at least two of the questions, you should consider enrolling in MTH 161.
* If you answered yes to one of the questions, you should consider enrolling in MTH 161 with the co-requisite course, if it is offered at your college. Please contact advisor for pre-requisite requirements.
* If you answered no to all three questions, refer to “Are you ready for MTH 154, MTH 155, or Algebra?”