Name_____ Course Days/Start Time_____

MAC 1105 Diagnostic Follow Up

Instructions:

►Get help for the topics you missed on the diagnostic worksheet.

►Do these problems for each of the problems you got incorrect on the diagnostics worksheet.

►Do not use any calculators.

1) Subtract: –19 – (–12)

2) Simplify: -11^2

3) Simplify: $\frac{7}{0}$

4) Evaluate $-xy-2z$ when $x=-3, y=8, z=-1$

5) Simplify $\frac{15x^{16}y^3}{45x^8y^8}$ and answer with only positive exponents.

6) Simplify $(3x^6y)(-5x^9y^6)$ and answer with only positive exponents.

7) Simplify: $(2x^2-5x+4)+(8x^2+x-11)$

8) Subtract: $(6x^2-2x-3)-(-2x^2-5x+7)$

9) Multiply: $(3x-5)^2$

10) Multiply: $(3x+2)(4x-5)$

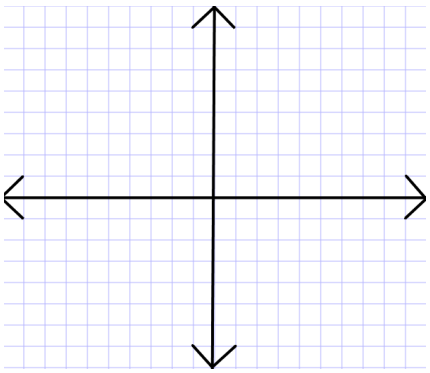
11) Factor out the GCF and write in factored form: $7x^8 - 21x^4$

12) Factor completely: $x^2 - 64$

13) Factor completely: $2x^2 - 3x - 20$

14) Solve for x: $5(2x+3) = 8(x+2)$

15) Solve for x: $\frac{1}{3}x - \frac{1}{2} = \frac{5}{12}$



16) What is the slope of the line $y = 3x + 2$?

17) Plot the coordinates on the top graph provided.

$(3,0)$, $(-1,-3)$, $(5,2)$

18) Graph $y = \frac{2}{3}x - 2$ on the bottom graph provided.