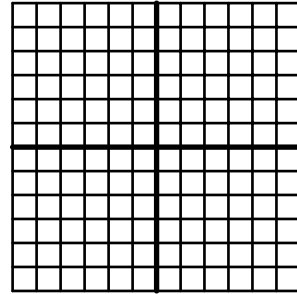


PSU MTH 70/95 Placement Assessment

To start in MTH 95 you should have familiarity with problems like the ones below and you should be able to do most of them correctly. If you cannot do these problems, then you should take MTH 70. These problems are just a small sample of some of the skills and concepts covered in MTH 70. If you know that you have learned this material in the past and can do these problems with some review on your own, you may be able to prepare yourself for success in MTH 95 even though you missed several questions here. Or, you may find that starting in a math course that reviews some material is the best route for your long-term success. For more thorough advising about which course you should take, please talk to someone in the math department.

1. If $x = -2$ and $y = 5$, find the value of $3x - 4y$.

2. Sketch a graph of $y = 2x + 3$.



3. What is the slope of the line that goes through the points $(1,4)$ and $(-1,-2)$?

4. Solve for x : $2(x-3) = 3x + 5$

5. Multiply: $3x^2(5x^3 - 2x + 7)$

6. $\frac{1}{2} - \frac{3}{8} + (-5)$

7. Solve for B: $A = BC + D$

8. A 42-inch wire is to be cut into two pieces. One piece must be exactly twice as long as the other piece. How long should the shorter piece be?