

Math 1513 - College Algebra
Quiz #11 - 2011.09.22
Solutions

1. If $f(x)$ has domain D , and $g(x)$ has domain E , what is the domain of $f(x) + g(x)$?

The domain of $f(x) + g(x)$ must consist of the points in common for both domains, which is $D \cap E$.

2. Explain how we can arrive at the graph of $p(x) = -2(x + 3)^2 - 11$ starting with the graph of $q(x) = x^2$.

First, we shift the graph to the left 3 units. Then we scale by a factor of 2 and flip about the x -axis, and finally shift the graph down 11 units.