Here are some problems to try so that you know that you are up to speed for the first quiz.

- 1. If f(x) is an even function and g(x) is an odd function, show that h(x) = f(x + g(x)) is also an even function.
- 2. Determine whether the function $f(x) = \tan(\sin(\pi + x))$ is even, odd or neither.
- 3. Find all x satisfying the inequality

$$\frac{x+2}{x-3} \le \frac{3x-2}{x+3}.$$

4. Find the remainder upon dividing $x^3 + 2x^2 - 3x + 4$ by $x^2 - 2x + 1$.