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

$$
\frac{x+2}{x-3} \leq \frac{3 x-2}{x+3}
$$

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