Reading Quiz §7 con't

1. Consider Example 1 in Chapter 7 where $G = S_3$ and $H = \{(1), (13)\}$.

   (a) [1] If $N \leq G$, what possibilities could $|N|$ be?

   (b) [1] Find $|G|/|H|$.

   (c) [1] Find $[G : H]$.

   (d) [2] Find $\text{stab}_H(2)$