Activity 3-1 (12 Jul 2022)

1. Prove the following statement:

If integer $c$ divides both integers $a$ and $b$, then $c$ divides $a-b$.
(Hint: try direct proofs.)

Activity 3-2
2. Prove the following statement: If $x$ is irrational, then $\sqrt{x}$ is irrational. (Hint: try proofs by contraposition.)

