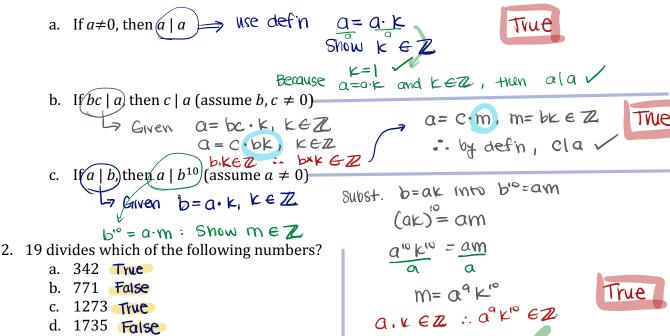
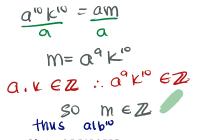
CECS 229: HW 1 (Divisibility) Spring 2021

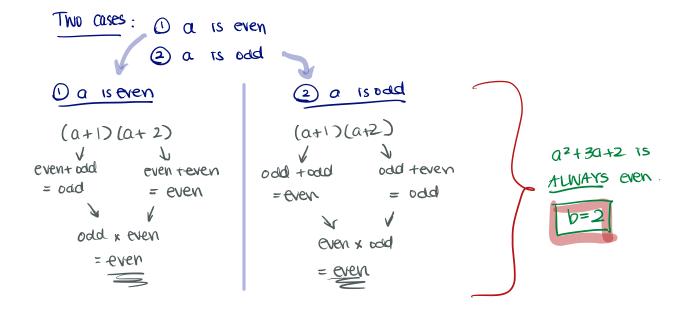
Remember, we will not be collecting or grading homework. The homework is optional but highly recommended. Quiz questions will be similar to the homework questions but not identical. Solutions to these problems are posted on BeachBoard.

1. True or false? If it is false, provide a counterexample and if true, prove why. Note: $a, b, c \in \mathbb{Z}$





3. Let $a \in \mathbb{Z}$. Find an integer, $b \neq 1$, so that $b \mid (a^2 + 3a + 2)$ is ALWAYS a true statement. (a+ 1) (a+2)



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