10 . There is an integer $n$ such that $2 n^{2}-5 n+2$ is prime.
Proof:
Let $n=3$
then $n$ is an integer such that

$$
\begin{aligned}
2 \mathrm{n}^{2}-5 \mathrm{n}+2 & =2(3)^{2}-5(3)+2 \\
& =5
\end{aligned}
$$

which is prime.
Q.E.D.

