

14.2, number 1: **Find** $\lim_{(x,y) \rightarrow (0,0)} \frac{3x^2 - y^2 + 5}{x^2 + y^2 + 2}$.

Answer: There is nothing tricky here. When (x, y) is near $(0, 0)$, then $3x^2 - y^2 + 5$ is near 5; $x^2 + y^2 + 2$ is near 2; and $\frac{3x^2 - y^2 + 5}{x^2 + y^2 + 2}$ is near $\boxed{\frac{5}{2}}$.