

PRINT your name:

1. Find the general solution to $y' = \frac{3x^2 - x}{y}$.

2. For the solution $y(x)$ to part 1 satisfying $y(1) = -2$, what is $\lim_{x \rightarrow +\infty} y(x)$? Fully justify your answer.
If the limit is not a real number, distinguish between $+\infty$, $-\infty$, and other behavior.