## (9.3) Separable Equations

Full Name:

1. Find the general solutions of the following differential equations.
(a) $y=\sqrt[5]{3 x^{2}+C}$
(b) $y=-\frac{1}{\ln |x|+C}$
2. Find the solution that satisfies the given initial condition.
(a) $y=e^{2 x+4}$
(b) $y=\tan ^{-1}\left(\frac{1}{2} x^{2}-\frac{1}{2}\right)$
