

NAME: .....

MTH 132, MSU, 11/9/2018.

**Quiz 9**

1.  $\int \left( \frac{3}{\sqrt[3]{x}} - 5\sqrt[3]{x^2} \right) dx =$

2.  $\int (40x^3 - 9x + 3 + \cos(x)) dx =$

3. Solve the initial value problem

$$\frac{dy}{dx} = \frac{8}{x^9} + 6x^2; \quad y(1) = 3.$$