Name: _____

1. $\displaystyle\lim_{x \to 0^+} (1 + x)^{1/x} =$

2. $\displaystyle\int \left(8x^3 - \frac{1}{x^2} + x \right) dx =$

3. $\displaystyle\int \left(\pi \sin(x) + 4 \right) dx =$

4. $\displaystyle\int \left(\sqrt[5]{x} + e^x \right) dx =$

1. $\displaystyle\lim_{x \to 0^+} (1+x)^{1/x} =$

2. $\displaystyle\int \left(10x^4 + 2x^2 - x + \frac{1}{x}\right) dx =$

3. $\displaystyle\int \left(1 + \sec^2(x)\right) dx =$

4. $\displaystyle\int \left(5e^x + \sqrt{x}\right) dx =$