

Integration Bee Appetizers

Week -1 Bee Food

Time Cost

¢	Easy
¢¢	Medium
¢¢¢	Hard
¢¢¢¢	Impossible

Chef's Recommendations

Half-Baked Brownie

¢

$$\int_{-1}^1 \left(\frac{1}{2} - \frac{1}{2^x + 1} \right) dx$$

Oil Noodles

¢¢

$$\int e^{\sin x} \sin 2x \, dx$$

Number Soup

¢¢¢

$$\int \frac{x^8}{(x^3 + 1)^4} dx$$

Pizza Pi

¢¢¢¢

$$\int_0^\infty \left(\tan^{-1}(x^2) - \frac{\pi}{2} \right) dx$$

Specials

Classic French Onion Soup

¢

$$\int \frac{1}{x + x^{2026}} dx$$

Vinculum Tuna Sandwich

¢¢

$$\int_1^\infty \frac{\ln(x-1)}{x\sqrt{x-1}} dx$$

Diabetes Inducing Cream Puff

¢¢¢

$$\int_0^{\frac{\pi}{2}} \sin^5(2x) \sin\left(x + \frac{5\pi}{4}\right) dx$$

We Forgot To Name This One

¢¢¢¢

$$\int_0^\infty \frac{\ln(\sqrt{2}x - 2\sqrt{x} + \sqrt{2})}{x^2 + 1} dx$$

Hot & Spicy

Tangy Coconut Spicy Shrimp

¢

$$\int \tan x \operatorname{cosec}^2 x \, dx$$

Chili Countdown Burger

¢¢

$$\int \frac{3x - x^3}{3x^4 + 2x^2 - 1} dx$$

Sichuan Hot Pot

¢¢¢

$$\int e^x \sin x \sin(x + \tan^{-1} 2) \, dx$$

Inside-Out Hot wings

¢¢¢¢

$$\int_0^1 \ln x \sin^3(\ln x) \, dx$$

Sweat Treats

Fruit Tart Square

¢

$$\int_0^1 \frac{x^2}{\sqrt{1-x^2}} dx$$

Gauss Gingerbread

¢¢

$$\int_1^\infty \frac{1}{x^2 \sqrt{\ln x}} dx$$

Eulerian Éclair

¢¢¢

$$\int_0^1 \left(\frac{\ln x}{1-x} + \frac{\ln(1-x)}{x} \right) dx$$

Massachusetts Inspired Tiramisu

¢¢¢¢

$$\sum_{k=1}^\infty \int_k^\infty \frac{1}{4x^3 - x} dx$$



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MathSoc

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