

Calc BC: 8.0 Basic Integration

Name: _____

Hint: What is the pirate's favorite letter?

1. $\int x^n dx$

6. $\int \frac{1}{x} dx$

2. $\int \sin x dx$

7. $\int \frac{1}{\sqrt{1-x^2}} dx$

3. $\int \cos x dx$

8. $\int \frac{1}{\sqrt{a^2-x^2}} dx$

4. $\int \sec^2 x dx$

9. $\int \frac{1}{1+x^2} dx$

5. $\int \csc^2 x dx$

10. $\int \frac{1}{a^2+x^2} dx$

11. $\int \tan x \, dx$

See page 516 to check your work.

12. $\int -\csc^2 x \, dx$

13. $\int \tan x \sec x \, dx$

14. $\int -\cot x \csc x \, dx$