

Lesson 27 Worksheet

March 30, 2018

1. $\int x^4 dx$

2. $\int x^\pi dx$

3. $\int \frac{x+1}{4} dx$

4. $\int \frac{x+1}{\sqrt{x}} dx$

5. $\int -\sec^2(x) dx$

6. $\int 8 \sin x \cot x dx$

7. $\int 4 + e^x dx$

8. $\int 4x^{-1} dx$

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

10. $\int 4x - e^x + 5 \sec x \tan x dx$

Answers:

1. $\frac{1}{5}x^5 + C$

2. $\frac{1}{\pi+1}x^{\pi+1} + C$

3. $\frac{x^2}{8} + \frac{1}{4}x + C$

4. $\frac{2}{3}x^{3/2} + 2x^{1/2} + C$

5. $-\tan x + C$

6. $8 \sin x + C$

7. $4x + e^x + C$

8. $4 \ln |x| + C$

9. $x + \ln |x| + C$

10. $2x^2 - e^x + 5 \sec x + C$