

## 6.13 Improper Integrals

Calculus

Name: \_\_\_\_\_

CA #2

Evaluate each integral.

1.  $\int_0^5 \frac{1}{\sqrt{5-x}} dx$

2.  $\int_2^{\infty} x^{-2} dx$

3.  $\int_{-\infty}^0 e^{4x} dx$

4.  $\int_2^{\infty} \frac{1}{x\sqrt{x^2-4}} dx$

5.  $\int_0^1 \frac{1}{x^{7/5}} dx$

6.  $\int_2^\infty \frac{3}{x(x-1)} dx$

Answers to 6.13 CA #2

1. $2\sqrt{5}$	2. $\frac{1}{2}$	3. $\frac{1}{4}$	4. $\frac{\pi}{4}$	5. Diverges	6. $3 \ln 2$
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