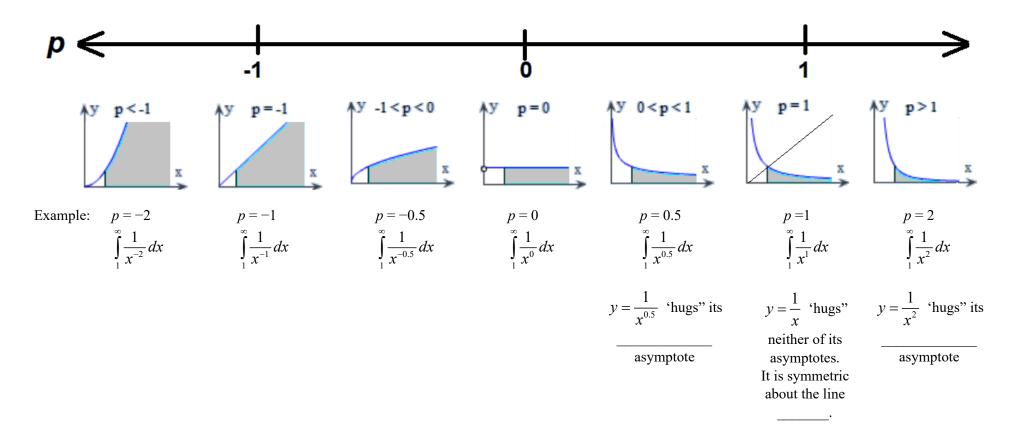
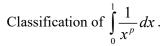
Classification of 
$$\int_{1}^{\infty} \frac{1}{x^{p}} dx$$
.

Write " <  $\infty$ " or "=  $\infty$ " after each improper integral. Plot the values of p on the number line for which  $\int_{1}^{\infty} \frac{1}{x^{p}} dx < \infty$ 





Write " <  $\infty$ " or "=  $\infty$ " after each improper integral. Plot the values of *p* on the number line for which  $\int_{0}^{1} \frac{1}{x^{p}} dx < \infty$ 

