

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

# Calc 2

1. Washer

A.  $m = \int P(x) dx$

2. Disk

B.  $e^{x \ln b}$

3.  $b^x$

C.  $2\pi f(x) \sqrt{1 + f'(x)^2}$

4. Arc Length

D.  $\int 2\pi x (f(x) - g(x)) dx$

5. Surface Area

E.  $\int \pi (f(x))^2 dx$

6. Shell

F.  $A = \int (f(x) - g(x)) dx$

7. Work

G.  $e^{u(x)} * u'(x)$

8. Mass

H.  $\int \pi (f(x)^2 - g(x)^2) dx$

9.  $e^{u(x)}$

I.  $w = \int F(x) dx$

10. Area of 2 Curves

J.  $\int \sqrt{1 + F'(x)^2}$