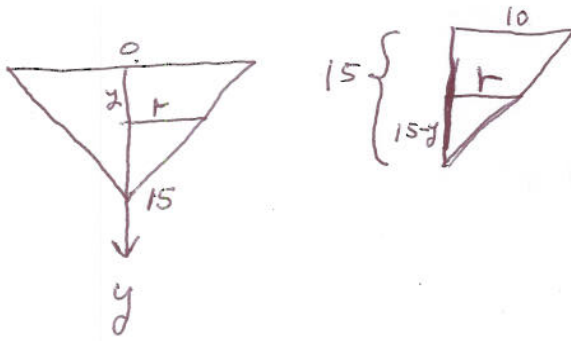


Pictures 142 Exam 3 Fall 2006

①



$$\frac{r}{15-y} = \frac{10}{15}$$

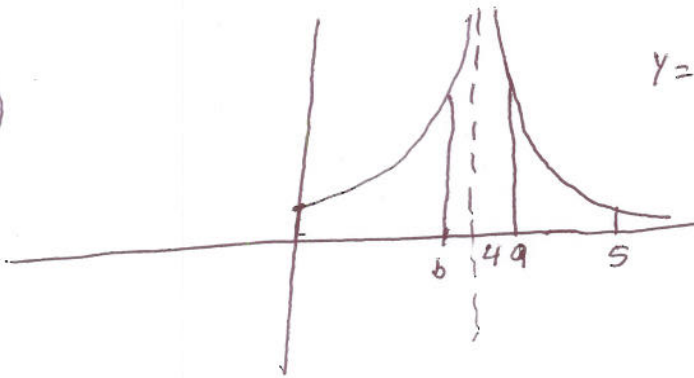
$$r = \frac{10}{15}(15-y)$$

$$r = 10 - \frac{2}{3}y$$

When $y=0$ $r=10$

When $y=15$ $r=0$

②



$$y = \frac{1}{(x-4)^2}$$