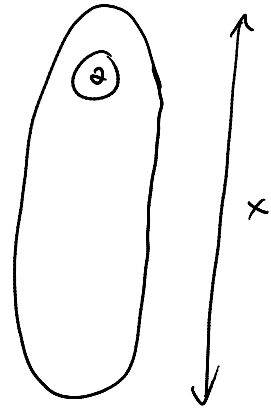
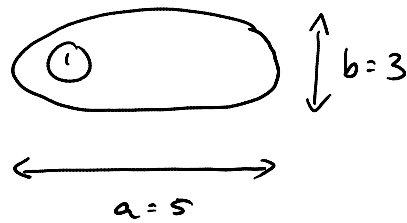


## Section 6.2: cont'd

Thursday, January 07, 2016  
10:29 AM

example: The two ellipses in the diagram below are similar. The area of the larger ellipse is exactly twice the area of the smaller one. Calculate the length  $x$  in the diagram ( $x$  is the larger ellipse's major axis). Give an exact answer.



areas scale as  $k^2$

$$k^2 = 2$$
$$k = \sqrt{2}$$

$$x = ka$$
$$= \sqrt{2} \cdot 5$$
$$= 5\sqrt{2}$$