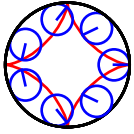
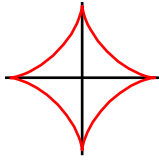


[2] If a circle is rotated within a circle radius 8 as shown



the resulting figure



is called the astroid and its equation is $x^{\frac{2}{3}} + y^{\frac{2}{3}} = 4$. Find the rate at which y is changing with respect to x at the point $(-3\sqrt{3}, 1)$ on this astroid.