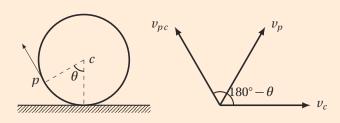
speed of a point on circumference



$$\vec{v}_p = \vec{v}_c + \vec{v}_{pc}$$

$$v_p = 2v\sin\frac{\theta}{2}$$