

# Muon Physics

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## 2

Consider the equation for the velocity of a point on a rotating at radius

$$v(ft/min) * RPM = \pi \frac{d}{12} \quad (1)$$

Setting  $v$  equal to the surface cutting speed,  $d$  equal to tool diameter and using the approximation  $\pi \approx \frac{2e}{\sqrt{3}} \approx 3$  we find

$$cuttingSpeed = \frac{RPM * ToolDiameter}{4} \quad (2)$$

## 3

## 4

## 5