$$f'(x) = \frac{-6}{3x} + \frac{3}{\sqrt{x}}$$

$$\frac{d}{dx}(\cot x) = -\csc^2 x$$
7. Find  $f'(x)$  for  $f(x) = \cot x - \frac{3}{\sqrt{x}}$ 

$$f'(x) = -\cot x - \frac{3}{\sqrt{x}}$$

$$f'(x) = -\csc^2 x + \frac{3}{2}x$$

$$f'(x) = -\csc^2 x + \frac{3}{2}x$$
Exit Ticket Upload: Given  $f(x)$ , find  $f'(x)$ 
1.  $f(x) = \sin x + 4e^x$ 

$$u' = 0$$

$$u' = e^x$$

$$u' = 0$$

$$u'$$

$$u=4$$
  $v=e^{x}$   
 $u'=0$   $v'=e^{x}$