1. 
$$f(x) = 3\sqrt{x}$$
 at  $x = 8$ 
 $f(x) = 3\sqrt{x}$  =  $3(2) = 6$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{3}\sqrt{x}$  ]  $3,\frac{1}{2},\frac{1}{2}$  +  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{4}$  =  $0 = x/3$  |  $0 = x/3 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{4}$  =  $0 = x/3 = x/3 = 1/2$ 
 $f'(x) = \sqrt{4}\sqrt{4}$  |  $f'(x) = \sqrt{$