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(1) [6 points] Let $f(x) = \frac{1}{\sqrt{x+2}}$. Use the limit definition of the derivative to find f'(a).

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(2) [3 points] Differentiate $v = t^2 - \frac{1}{\sqrt[4]{t^3}}$.	

(3) [3 points] Differentiate $h(\theta) = \theta \csc \theta - \cot \theta$.

(4) [3 points] Differentiate
$$y = \frac{\sin x}{x^2}$$
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