Determina $f(x)'$ para las funciones dadas, aplicando la definición de derivada:

$$f'(x) = \lim_{h \to 0} \frac{f(x+h)-f(x)}{h}$$

$f(x) = \frac{3x+1}{5x-2}$ R:$f'(x) = \frac{-11}{(5x-2)^2}$

$f(x) = \frac{2x-1}{-3x+2}$ R:$f'(x) = \frac{1}{(-3x+2)^2}$

$f(x) = \sqrt{-x+2}$ R:$f'(x) = \frac{-1}{2\sqrt{-x+2}}$

$f(x) = \sqrt{-3x+2}$ R:$\frac{-3}{2\sqrt{-3x+2}}$

$f(x) = \frac{1}{\sqrt{-x+2}}$ R:$f'(x) = \frac{1}{2\sqrt{(-x+2)^3}}$

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

$f(x) = \frac{-3}{\sqrt{-2x-3}}$ R:$f'(x) = \frac{-3}{\sqrt{(-2x-3)^3}}$