

HW: p.177-178

2. a. 0 b. -3 4. a. $5/16$ b. $-5/16$

6. Really a repeat of #5

8. $f'(x) = 2x-6$. $f'(3) = 0$ Tangent line: $y=-9$

10. $f'(x)=-6x+4$ $f'(3) = -14$ line: $y=-14x+27$

12. $f'(x) = \frac{-1}{(x+1)^2}$ $f'(3) = -1/16$ line: $x+16y=7$

14. $f'(x) = \frac{-2}{(2x+1)^2}$ $f'(3) = -2/49$ line: $49y+2x=13$

16. $f'(x) = 1 + \frac{1}{x^2}$ $f'(3) = 10/9$ line: $9y=10x-6$