

7a) $\frac{1+u^2}{(1-u^2)^2} \quad \checkmark$

1b) $-\tanh -\tanh \cos^2 u \quad \checkmark$

1c) $5e^u + ue^u \quad \checkmark$

2) $\frac{\sqrt[3]{y}}{\sqrt[3]{m}} = y', m = -\frac{\sqrt{3}}{1}, y + \sqrt{27} = -\sqrt{3}(n-1) \quad X$

3) $t(3) - t(0) = 21 - 3 = 18 \quad X$

5) yes; (int and diff: $a=2.5, b=1, c=0 \quad \checkmark$)

6b) $f'(0) = \lim_{h \rightarrow 0} \frac{f(h)-f(0)}{h} = 1 \quad \checkmark$

6a) $f(a+0) = 2f(a) \Rightarrow f(0) = 0 \quad \checkmark$

6c) $f'(u) = \lim_{h \rightarrow 0} \frac{f(u+h)-f(u)}{h} = 1+u^2 \quad \checkmark$