17.2 1)

α) $y(x)=-2x^2+x-1 \Rightarrow \boxed{y'(x)=-4x+1}$

β) $y'(x)=-4x+1 \overset{x=1}{\Rightarrow} \boxed{y'(1)=-3}$

17.2 2)

α) $y(x)=x^2+x-1 \Rightarrow \boxed{y'(x)=2x+1}$

β) $y'(x)=2x+1 \overset{x=3}{\Rightarrow} \boxed{y'(3)=7}$

17.2 3)

α) $y(x)=3x^2-2x-5 \Rightarrow \boxed{y'(x)=6x-2}$

β) $y'(x)=6x-2 \overset{x=5}{\Rightarrow} \boxed{y'(5)=28}$

17.2 4)

α) $y(x)=-x^2-4x+9 \Rightarrow \boxed{y'(x)=-2x-4}$

β) $y'(x)=-2x-4 \overset{x=-3}{\Rightarrow} \boxed{y'(-3)=2}$

17.2 5)

$y(x)=3x^2-2x+1 \Rightarrow \boxed{y'(x)=6x-2} \overset{x=-2}{\Rightarrow} \boxed{y'(-2)=-14}$

17.2 6)

$y(x)=x^3+x-1 \Rightarrow \boxed{y'(x)=3x^2+1} \overset{x=-1}{\Rightarrow} \boxed{y'(-1)=4}$

17.2 7)

$f(x)=2x-\frac{1}{x} \Rightarrow \boxed{f'(x)=2+\frac{1}{x^2}} \overset{x=1}{\Rightarrow} \boxed{f'(1)=3}$

17.2 8)

$f(x)=8\sqrt{x} \Rightarrow f'(x)=\frac{8^{4}}{2\sqrt{x}} \Rightarrow \boxed{f'(x)=\frac{4}{\sqrt{x}}} \overset{x=4}{\Rightarrow} \boxed{f'(4)=2}$