CHAPTER 2 DERIVATIVES

.1 THE DERIVATIVE OF A FUNCTION

1. Step 1: $f(x) = 4 - x^2$ and $f(x+h) = 4 - (x+h)^2$

   Step 2: $\frac{f(x+h) - f(x)}{h} = \frac{[4-(x+h)^2] - (4-x^2)}{h} = \frac{(4 - x^2 - 2xh - h^2) - 4 + x^2}{h} = \frac{-2xh - h^2}{h} = \frac{h(-2x-h)}{h}$
   $= -2x - h$

   Step 3: $f'(x) = \lim_{h \to 0} (-2x - h) = -2x$; $f'(-3) = 6$, $f'(0) = 0$, $f'(1) = -2$

2. $F(x) = (x-1)^2 + 1$ and $F(x+h) = (x+h-1)^2 \Rightarrow F'(x) = \lim_{h \to 0} \frac{[(x+h-1)^2 + 1] - [(x-1)^2 + 1]}{h}$

   $= \lim_{h \to 0} \frac{(x^2 + 2xh + h^2 - 2x - 2h + 1 + 1) - (x^2 - 2x + 1 + 1)}{h} = \lim_{h \to 0} \frac{2xh + h^2 - 2h}{h} = \lim_{h \to 0} (2x + h - 2)$
   $= 2(x-1)$; $F'(-1) = -4$, $F'(0) = -2$, $F'(2) = 2$

3. Step 1: $g(t) = \frac{1}{t^2}$ and $g(t+h) = \frac{1}{(t+h)^2}$

   Step 2: $\frac{g(t+h) - g(t)}{h} = \frac{\frac{1}{(t+h)^2} - \frac{1}{t^2}}{h} = \frac{\left(\frac{t^2 - (t+h)^2}{(t+h)^2 \cdot t^2}\right)}{h} = \frac{t^2 - (t^2 + 2th + h^2)}{(t+h)^2 \cdot t^2 \cdot h} = \frac{-2th - h^2}{(t+h)^2 t^2 h}$
   $= \frac{h(-2t-h)}{(t+h)^2 t^2 h} = \frac{-2t-h}{(t+h)^2 t^2}$

   Step 3: $g'(t) = \lim_{h \to 0} \frac{-2t-h}{(t+h)^2 t^2} = \frac{-2t}{t^2 \cdot t^2} = \frac{-2}{t^3}$; $g'(-1) = 2$, $g'(2) = -\frac{1}{4}$, $g'(\sqrt{3}) = -\frac{2}{3\sqrt{3}}$

4. $K(z) = \frac{1-z}{2z}$ and $K(z+h) = \frac{1-(z+h)}{2(z+h)} \Rightarrow K'(z) = \lim_{h \to 0} \frac{\left(\frac{1-(z+h)}{2(z+h)} - \frac{1-z}{2z}\right)}{h}$

   $= \lim_{h \to 0} \frac{(1-z-h)z - (1-z)(z+h)}{2(z+h)zh} = \lim_{h \to 0} \frac{z - z^2 - zh - z - h + z^2 + zh}{2(z+h)zh} = \lim_{h \to 0} \frac{-h}{2(z+h)zh} = \lim_{h \to 0} \frac{-1}{2(z+h)z}$
   $= \frac{-1}{2z^2}$; $K'(-1) = -\frac{1}{2}$, $K'(1) = -\frac{1}{2}$, $K'(\sqrt{2}) = -\frac{1}{4}$

5. Step 1: $p(\theta) = \sqrt{3\theta}$ and $p(\theta + h) = \sqrt{3(\theta + h)}$

   Step 2: $\frac{p(\theta+h) - p(\theta)}{h} = \frac{\sqrt{3(\theta+h)} - \sqrt{3\theta}}{h} = \frac{\left(\sqrt{3\theta + 3h} - \sqrt{3\theta}\right)}{h} \cdot \frac{\left(\sqrt{3\theta + 3h} + \sqrt{3\theta}\right)}{\left(\sqrt{3\theta + 3h} + \sqrt{3\theta}\right)} = \frac{(3\theta + 3h) - 3\theta}{h\left(\sqrt{3\theta + 3h} + \sqrt{3\theta}\right)}$

   $= \frac{3h}{h\left(\sqrt{3\theta + 3h} + \sqrt{3\theta}\right)} = \frac{3}{\sqrt{3\theta + 3h} + \sqrt{3\theta}}$

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