Important Formulas for Exercise 3.3

$$f(x) = \frac{df}{dx}$$

$$(cf(x)) = c(f(x))$$

$$(f(x) \pm g(x))' = f'(x) \pm g(x)$$

3- 
$$(f(x)g(x))' = f(x)g(x) + g(x)f(x)$$
 (Product Rule)

$$\left(\frac{f(x)}{g(x)}\right)' = \frac{g(x)f(x)-f(x)g(x)}{\left[g(x)\right]^2} \qquad \left(\frac{g(x)f(x)-f(x)g(x)}{g(x)}\right)$$

5- 
$$(x^n)' = nx^{n-1}, (x)' = 1, (c)' = 0$$

$$[f(x)^n]' = n f(x)^{n-1} \cdot f'(x)$$
(Rower Rule)

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Differentiate the following wirt 
$$\dot{x}$$
, (v)

(i)  $5x^5$ 
Let  $y = 5x^5$ 
 $y' = (5x^5)$ 
 $y' = 5(x^5)$ 
 $= 5(5x^{5-1})$ 
 $= 25x^4$ 
(vii)

Let  $y = \frac{7}{9}x^9$ 
 $y' = (\frac{7}{9}x^9)'$ 
 $y' = \frac{7}{9}(x^9)' = \frac{7}{9}(x^8)$ 
 $= 7x^8$ 
(iii)  $-25x^{-3/5}$ 
Let  $y = -25x^{-3/5}$ 
 $= -25(x^{-3/5})$ 
 $= -25(x^{-3/5})$ 
(ix)
 $= 15x^{-8/5}$ 
(x)

(iv)  $124\sqrt{x}$ 
Let  $y = 124x^{1/2}$ 
 $y' = (124x^{1/2})' = 124(x^{1/2})'$ 
 $y' = \frac{624}{12}(\frac{1}{2}x^{\frac{1}{2}-1}) = 62x^{-\frac{1}{2}} = \frac{62}{2}$ 
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Let 
$$y = \frac{1}{22}x^{22}$$
 $y' = (\frac{1}{22}x^{22})' = \frac{1}{22}(x^{22})' = \frac{1}{22}(22x^{21})'$ 
 $y' = (x^{21})' = \frac{1}{22}(x^{22})' = \frac{1}{22}(22x^{21})'$ 
 $y' = (x^{21})' = -100x$ 

(vii)

Let  $y = x^{20}$ 
 $y' = (x^{20})' = -100x$ 

(viii)

 $y' = 15x^{1/3}$ 
 $y' = 15(x^{1/3})' = 15(x^{1/3})$ 
 $y' = 16(x^{3/4})'$ 
 $y' = 3(x^{-\frac{13}{4}})' = 3(x^{-\frac{13}{4}})'$ 
 $y' = 3(x^{-\frac{13}{4}})' = -4(x^{-\frac{3}{4}})'$ 
 $y' = -4(x^{-\frac{3}{4}})' = -4(x^{-\frac{3}{4}})'$ 
 $y' = -4(x^{-\frac{3}$ 

(i) Let 
$$y = \frac{x^{5}}{\alpha^{2}+b^{2}} + \frac{x^{2}}{\alpha^{2}-b^{2}}$$

$$y' = \left(\frac{x^{5}}{\alpha^{2}+b^{2}} + \frac{x^{2}}{\alpha^{2}-b^{2}}\right)'$$

$$y' = \left(\frac{x^{5}}{\alpha^{2}+b^{2}}\right)' + \left(\frac{x^{2}}{\alpha^{2}-b^{2}}\right)'$$

$$y' = \frac{1}{\alpha^{2}+b^{2}}\left(x^{5}\right)' + \frac{1}{\alpha^{2}-b^{2}}\left(x^{2}\right)'$$

$$y' = \frac{1}{\alpha^{2}+b^{2}}\left(5x^{4}\right)' + \frac{1}{\alpha^{2}-b^{2}}\left(2x\right)'$$

$$y' = \frac{5x^{4}}{\alpha^{2}+b^{2}} + \frac{2x}{\alpha^{2}-b^{2}}$$

$$(ii) Let \quad y = 2x + \frac{1}{2}x^{6}$$

$$y' = \left(\frac{2x}{2} + \frac{1}{2}x^{6}\right)'$$

$$= (2x) + \left(\frac{1}{2}x^{6}\right)'$$

$$= (2x) + \left(\frac{1}{2}x^{6}\right)'$$

$$= (2x) + \left(\frac{1}{2}x^{6}\right)'$$

$$= (2x) + \frac{1}{2}(6x^{5})$$

$$= x + 3x^{5}$$

$$y' = \left(x^{2}\right)'^{3} + x^{2}$$

$$y' = \left(x^{2}\right)'^{3} + x^{2}$$

$$y' = \left(x^{2}\right)'^{3} + x^{2}$$

$$y' = \left(x^{2}\right)'^{3} + \left(x^{2}\right)'$$

$$= \frac{2}{3}x^{2} + \frac{1}{2}x^{2}$$

(iv) Let 
$$y = \frac{1}{21} x^{21} + \frac{1}{22} x^{22}$$

$$y' = \left(\frac{1}{21} x^{21} + \frac{1}{22} x^{22}\right)$$

$$= \left(\frac{1}{21} x^{21}\right)' + \left(\frac{1}{22} x^{22}\right)$$

$$= \frac{1}{21} (x^{21})' + \frac{1}{22} (x^{22})'$$

$$= \frac{1}{21} (x^{20}) + \frac{1}{22} (x^{22})'$$

$$= x^{20} + x^{21}$$
(v) Let  $y = -\frac{5}{4} x^{\frac{4}{5}} + \frac{2}{3} x^{\frac{3}{2}}$ 

$$y' = \left(-\frac{5}{4} x^{\frac{4}{5}}\right) + \left(\frac{2}{3} x^{\frac{3}{2}}\right)'$$

$$= -\frac{2}{4} \left(-\frac{4}{5} x^{\frac{4}{5}}\right) + \left(\frac{2}{3} x^{\frac{3}{2}}\right)'$$

$$= -\frac{2}{4} \left(-\frac{4}{5} x^{\frac{4}{5}}\right) + \frac{2}{3} \left(\frac{3}{2} x^{\frac{3}{2}}\right)'$$

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(ii) Let 
$$y = \frac{2ax^3 - \frac{x^2}{b}}{b} + 6$$
 $y' = \frac{2ax^3 - \frac{x^2}{b}}{b} + 6$ 
 $y' = \frac{2ax^3}{b} - \frac{x^2}{b} + 6$ 
 $y' = \frac{2a(x^3)' - \frac{1}{b}(x^2)' + 0}{b}$ 
 $y' = \frac{2a(x^3)' - \frac{1}{b}(x^2)' + 0}{b}$ 
 $y' = \frac{2a(3x^2) - \frac{1}{b}(2x)}{b}$ 
 $y' = \frac{2ax^3 - \frac{3}{2}x^2}{b}$ 

(ii) Let  $y = \frac{x^3 - \frac{3}{2}x^2}{b}$ 
 $y' = \frac{x^3 - \frac{3}{2}x^2}{b}$ 

(iii) Let  $y = \frac{5x^3 - \frac{1}{2}x^3}{b}$ 
 $y' = \frac{5x^3 - \frac{1}{2}x^3}{b}$ 
 $y' = \frac{5x^3 - \frac{1}{2}x^3}{b}$ 
 $y' = \frac{5x^3 - \frac{3}{2}x^3}{b}$ 
 $y' = \frac{5x^3 - \frac{3}{2}x^3}{b}$ 

(v) Let 
$$y = 3 \left( \sqrt[3]{x^2} \right) - 4 \left( \sqrt[4]{x} \right)$$

$$y = 3 \left( x^2 \right)^{\frac{1}{3}} - 4 \left( x \right)^{\frac{1}{4}}$$

$$y = 3 \left( x^2 \right)^{\frac{1}{3}} - 4 \left( x \right)^{\frac{1}{4}}$$

$$y' = \left( 3 x^{\frac{2}{3}} - 4 x^{\frac{1}{4}} \right)$$

$$y' = \left( 3 x^{\frac{2}{3}} \right) - \left( 4 x^{\frac{1}{4}} \right)$$

$$y' = 3 \left( \frac{2}{3^2} x^{\frac{2}{3}-1} \right) - 4 \left( \frac{1}{4^2} x^{\frac{1}{4}-1} \right)$$

$$y' = 2 x^{-\frac{1}{3}} - x^{-\frac{3}{4}}$$

$$A_{1/3}$$

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$$P(x) = x^{3} - 3x^{2} + 2x + 1$$

$$P(x) = (x^{3} - 3x^{2} + 2x + 1)'$$

$$= (x^{3})' - (3x^{2})' + (2x)' + (1)'$$

$$= 3x^{2} - 3(2x) + 2(1) + 0$$

$$= 3x^{2} - 6x + 2$$

$$P(x) = x^{4} - 3x^{2} + 2x - 3$$

$$P(x) = (x^{4} - 3x^{2} + 2x - 3)'$$

$$= (x^{4})' - (3x^{2})' + (2x)' - (3)'$$

$$= 4x^{3} - 3(2x)' + 2(1)' + 0$$

$$= 4x^{3} - 6x + 2$$

$$P(x) = (x^{6} - x^{4} + x^{3} + x)'$$

$$= (x^{6})' - (x^{1})' + (x^{3})' + (x^{3})'$$

$$= (x^{6})' - (x^{1})' + (x^{3})' + (x^{3})'$$

$$= (x^{6})' - (x^{1})' + (x^{3})' + (x^{3})'$$

$$= (9x^{1} + 7x^{1} + \frac{1}{5}x^{5} - \frac{1}{4}x^{4} + x + 1)'$$

$$= (9x^{1})' + (7x^{1})' + (\frac{1}{5}x^{5})' - (\frac{1}{7}x^{4})' + x + 1'$$

$$= 9(9x^{8}) + 7(7x^{6}) + \frac{1}{8}(8x^{4}) - \frac{1}{4}(8x^{3}) + 1 + 0$$

$$= 81x^{8} + 49x^{6} + x^{4} - x^{3} + 1$$

$$P(x) = x^{3} + x^{2} + x + 1$$

$$P'(x) = (x^{3} + x^{2} + x + 1)$$

$$= (x^{3}) + (x^{2}) + x + 1$$

$$= 3x^{2} + 2x + 1 + 0$$

$$= 3x^{2} + 2x + 1$$
And

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(i) h(x) = (2x - 5) (5x + 7) (fg) = fg + g f  
(i) h(x) = (2x - 5) (5x + 7) (2x - 5)  

$$= (2x - 5)(5x + 7) + (5x + 7)(2x - 5)$$

$$= (2x - 5)(5 + 0) + (5x + 7)(2 - 0)$$

$$= (2x - 5)(5) + (5x + 7)(2)$$

$$= 10x - 25 + 10x + 14$$

$$= 20x - 11 \qquad A_{max}$$

$$h(x) = x \cdot \sqrt{3x^2 + 4}$$

$$h(x) = \left[x \cdot (3x^2 + 4)^{\frac{1}{2}}\right] + (3x^2 + 4)^{\frac{1}{2}} \cdot (x)$$

$$= x \cdot \left[(3x^2 + 4)^{\frac{1}{2}}\right] + (3x^2 + 4) + (3x^2 + 4)^{\frac{1}{2}}$$

$$= x \cdot \left[(3x^2 + 4)^{\frac{1}{2}}\right] \cdot (3x^2 + 4) + (3x^2 + 4)^{\frac{1}{2}}$$

$$= \frac{x}{x}(3x^2 + 4)^{\frac{1}{2}} \cdot (3x^2 + 4) + (3x^2 + 4)^{\frac{1}{2}}$$

$$= \frac{3x^2}{3x^2 + 4} + \sqrt{3x^2 + 4}$$

$$= \frac{3x^2}{3x^2 + 4} + \sqrt{3x^2 + 4}$$

$$= \frac{3x^2}{3x^2 + 4} + \sqrt{3x^2 + 4}$$

$$= \frac{6x^2 + 4}{\sqrt{3x^2 + 4}}$$

$$= \frac{6x^2 + 4}{\sqrt{3x^2 + 4}}$$

$$= \frac{2(3x^2 + 2)}{\sqrt{3x^2 + 4}} + A_{max}$$

(iii) 
$$h(x) := \sqrt[3]{x+1} \cdot \sqrt[5]{x^2+1}$$

$$h(x) = \left[ (x+1)^{\frac{1}{3}} \cdot (x^2+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

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$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x^2+1)^{\frac{1}{3}} + (x^2+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} - (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} \right]$$

$$= (x+1)^{\frac{1}{3}} \cdot \left[ (x+1)^{\frac{1}{3}} + (x+1)^{\frac{1}{3}} +$$

$$h(x) = (x+1)^{3} \cdot x^{-\frac{3}{2}}$$

$$h'(x) = \left[ (x+1)^{3} \cdot x^{-\frac{3}{2}} \right]$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left[ (x+1)^{3} \right]$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

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$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

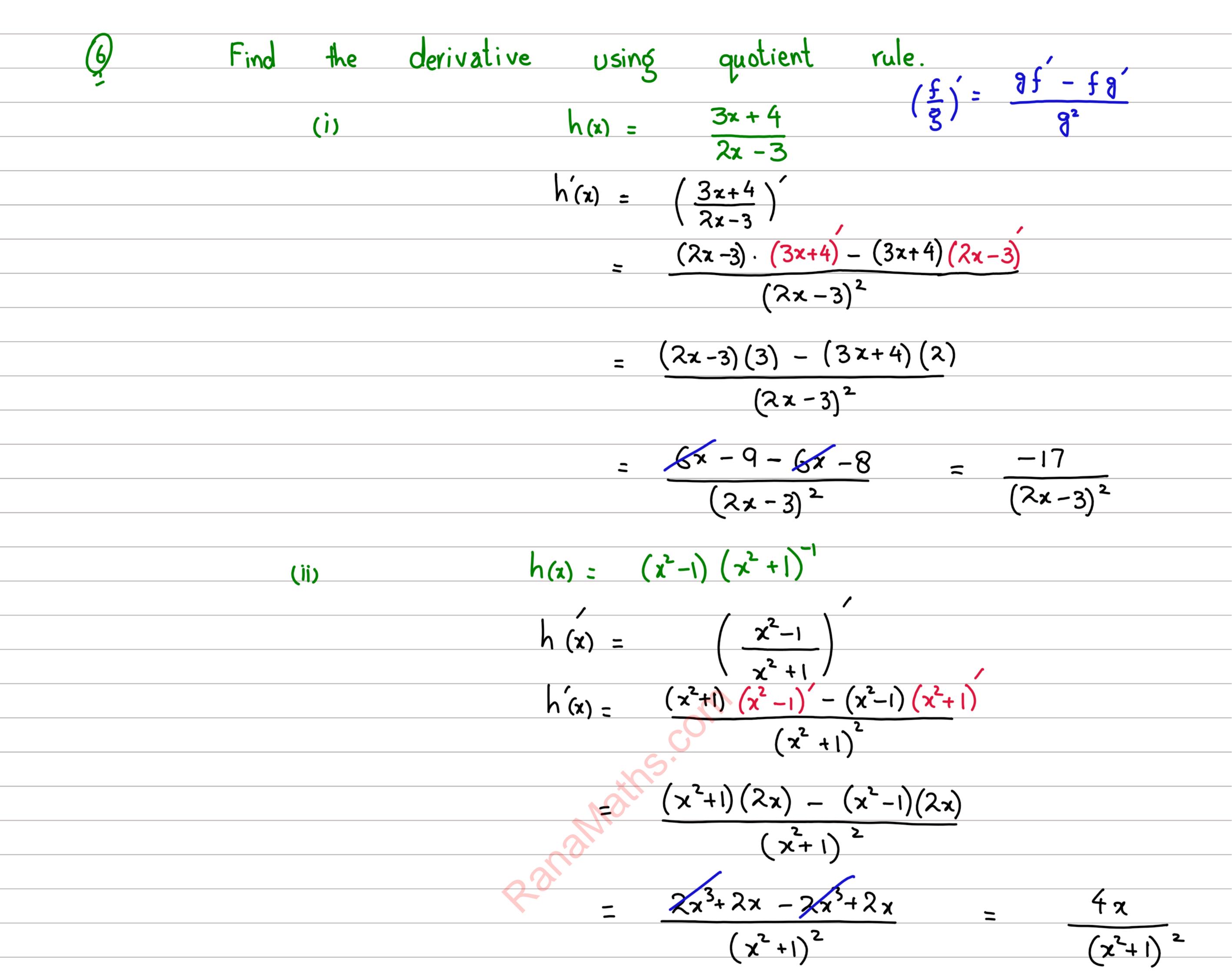
$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{3} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right)$$

$$= (x+1)^{3} \cdot \left( (x+1)^{2} \cdot x^{-\frac{3}{2}} \right) + x^{-\frac{3}{2}} \cdot \left( (x+1)^{2} \cdot x^{-\frac{2$$

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$$h(x) = \frac{\sqrt{x} + 1}{\sqrt{x} - 1}$$

$$h(x) = \left(\frac{x^{\frac{1}{2}} + 1}{x^{\frac{1}{2}} - 1}\right)'$$

$$h'(x) = \frac{\left(x^{\frac{1}{2}} - 1\right)\left(x^{\frac{1}{2}} + 1\right)' - \left(x^{\frac{1}{2}} + 1\right)\left(x^{\frac{1}{2}} - 1\right)'}{\left(x^{\frac{1}{2}} - 1\right)^{2}}$$

$$h'(x) = \frac{1}{\left(\sqrt{x} - 1\right)^{2}} \left[\left(x^{\frac{1}{2}} - 1\right)\left(\frac{1}{x} + 1\right) - \left(x^{\frac{1}{2}} + 1\right)\left(\frac{1}{x} + 1\right)\left(\frac{1}{x} + 1\right)\right]$$

$$= \frac{1}{\left(\sqrt{x} - 1\right)^{2}} \left[\left(\sqrt{x} - 1\right)\left(\frac{1}{2\sqrt{x}}\right) - \left(\sqrt{x} + 1\right)\left(\frac{1}{2\sqrt{x}}\right)\right]$$

$$= \frac{1}{2\sqrt{x}} \left(\sqrt{x} - 1\right)^{2} \left[\sqrt{x} - 1 - \sqrt{x} - 1\right] = \frac{-x}{x\sqrt{x}}$$

$$= \frac{-1}{\sqrt{x}} \left(\sqrt{x} - 1\right)^{2} A_{+}$$
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