$$= -x^{-2} - 4x^{-3} + 15x^{-4} + \frac{1}{2}x^{-\frac{1}{2}} - \frac{3}{2}x^{\frac{1}{2}} - \frac{3}{2}x^{-\frac{3}{2}}$$

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

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

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

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

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

$$=\frac{2(X+1)X+1X}{42X+1}$$

$$=\frac{2(X+1)X+1X}{42X+1}$$

$$=\frac{2(X+1)X+1X}{42X+1X}$$

5) =
$$\sqrt{1 + \sqrt{x^2 + 1}}$$

6) = $e_n(x + \sqrt{x^2 + 1}) + \sqrt{x^2 + 1} - \sqrt{x^2 + 1} = e_n(x + \sqrt{x^2 + 1})$
 $e_n(x + \sqrt{x^2 + 1}) + \sqrt{x^2 + 1} = e_n(x + \sqrt{x^2 + 1})$

$$6) = e_n(x+1)$$

$$= cos x = \frac{cos x}{cos x} = 1$$

$$7) = \sqrt{1-sin^2x}$$

$$8) = \sin 0^{\circ} + \cos 0^{\circ} \cdot \frac{11}{180} \approx \frac{3.14159}{180} \approx 0.0175$$