

Math 126
Homework 8 (suppl.)

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$$\int \frac{2}{27} + \frac{1}{24(x-1)} + \frac{2x}{9} + \frac{911}{621(1+3x)^2} + \frac{28289}{38088(1+3x)} + \frac{-1991-3710x}{3174(5+x^2)} dx =$$

(1)

$$\frac{2}{27}x + \frac{1}{24} \ln(x-1) + \frac{x^2}{9} - \frac{911}{1863(1+3x)} + \frac{28289}{114264} \ln(1+3x) - \frac{1991}{3174\sqrt{5}} \arctan \frac{x}{\sqrt{5}} - \frac{1855}{3174} \ln(5+x^2)$$

(2)