

INTRODUCTION TO CALCULUS

MATH 1A

UNIT 30: WORKSHEET

Partial Fractions

Problem 1: Integrate $\frac{1}{1+x}$.

Problem 2: Integrate $\frac{9}{(x-1)^2}$.

Problem 3: Integrate $\frac{7}{x^2+1}$.

Problem 4: Integrate $\frac{1}{(x+1)(x-1)(x+2)}$.

Problem 5: Integrate $\frac{1}{1-x^4}$.

Problem 6: Simplify $\frac{1}{3+2/x} + \frac{1}{\frac{1}{x}}$ then integrate it.