

# INTRODUCTION TO CALCULUS

MATH 1A

UNIT 28: WORKSHEET

## Partial fractions

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

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

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

**5:** Integrate  $\frac{1}{(x+1)(x-1)(x+2)}$  (use the Hospital method).

**5:** Integrate  $\frac{1}{1-x^4}$   
Hint: write as

$$A/(x^2 - 1) + B/(1 + x^2)$$