

INTRODUCTION TO CALCULUS

MATH 1A

UNIT 29: WORKSHEET

Trig Substitutions

1: Integrate

$$\sqrt{1 - x^2}$$

with the substitution $x = \cos(u)$.

2: Integrate

$$\frac{\arccos(x)}{1 - x^2}.$$

Hint. Use $x = \cos(u)$.