

Name: \_\_\_\_\_ Math 130 Day 17 In Class Worksheet

Date: \_\_\_\_\_ Section 10.2: Hypothesis Tests for a Population Proportion

1. **Tattoos** In 2001, 23% of American university undergraduate students had at least one tattoo. A health practitioner suspects that the percentage has changes since then. She obtains a random sample of 1026 university undergraduates and finds that 254 have at least one tattoo. Is this sufficient evidence to conclude that the proportion is different from 0.23 at the  $\alpha = 0.1$  level of significance?