Preface

Here are a set of problems for my Calculus I notes. These problems do not have any solutions available on this site. These are intended mostly for instructors who might want a set of problems to assign for turning in. I try to put up both practice problems (with solutions available) and these problems at the same time so that both will be available to anyone who wishes to use them.

**Integrals Involving Quadratics**

Evaluate each of the following integrals.

1. \( \int \frac{x+1}{x^2+10x+18} \, dx \)

2. \( \int \frac{15}{3y^2 - 4y + 4} \, dy \)

3. \( \int \frac{12 - 9z}{1 - 4z - 4z^2} \, dz \)

4. \( \int \frac{3 - 7t}{(t^2 + 12t + 40)^2} \, dt \)

5. \( \int \frac{11w + 4}{(3 + 6w - w^2)^2} \, dw \)

6. \( \int \frac{3}{(2x^2 + 10x + 4)^2} \, dx \)