Name: _____   Mark: _____

1. (2 points) $\displaystyle \int \frac{2}{x^2 + 2x + 2} \, dx$

2. (2 points) $\displaystyle \int \frac{\cos^3 \theta - 1}{\cos^2 \theta} \, d\theta$

3. (2 points) $\displaystyle \int_{-2}^{0} x \sqrt{\frac{x}{2} + 1} \, dx$

4. (2 points) $\displaystyle\int \frac{1}{(1+y^2)\arctan y}\,dy$

5. (2 points) $\displaystyle\int \frac{3x^2 + 5x}{x+2}\,dx$

6. (2 points) $\displaystyle\int_1^2 (u-1)^3\,du$