7.5 Discussion problems.

Due Friday, February 22. Show your work.

1. $\displaystyle\int \frac{dx}{(1-x^2)^{3/2}}$

2. $\displaystyle\int \sqrt{\frac{1+x}{1-x}}\, dx$

3. $\displaystyle\int \frac{3x^2-2}{x^2-2x-8}\, dx$

4. $\displaystyle\int \frac{\sec\theta\tan\theta}{\sec^2\theta-\sec\theta}\, d\theta$

5. $\displaystyle\int \arccos x\, dx$