ANSWERS to the Midterm I for Math 141, Fall 2003

1.a
2.d
3.e
4.a
5.a
6.a
7.b
8.d
9.d

10. $x^{\cos x}\left(\dfrac{\cos x}{x}-\sin x\cdot\ln x\right)$

11. $-\dfrac{x^2}{3}\cos 3x+\dfrac{2x}{9}\sin 3x+\dfrac{2}{27}\cos 3x+C$

12. $1-\dfrac{1}{\sqrt{3}}-\dfrac{\pi}{12}$

13. $\dfrac{x}{\sqrt{1-x^2}}-\arcsin x+C$