BC CALCULUS PRACTICE 6.3B **Name:** _____ **Period** _____

Aisle: _____ pg. 371 – 29, 33, 37, 41, 45, 49, 51, 53, 55ab, 57, 59, 61

Evaluate.

29. $\int \frac{e^x}{1+e^{2x}}\,dx$	33. $\int cos^4 3t \sin 3t\, dt$
37. $\int \cos 4\theta \sqrt{2-\sin 4\theta}\, d\theta$	41. $\int sec^3 2x \tan 2x\, dx$
45. $\int \frac{dx}{\sqrt{x}e^{2\sqrt{x}}}$	49. $\int sin^3 2\theta\, d\theta$

51.
$\int \frac{t+1}{t}\,dt$

53.
$\int [\ln e^{x} + \ln e^{-x}]\,dx$

55a.
$\int \frac{dx}{\sqrt{9-x^2}}$

b.
$\int \frac{dx}{5+x^2}$

57. Assume n is a positive integer, and $b \neq 0$.
$\int (a+bx)^n dx$

59. Assume n is a positive integer, and $b \neq 0$.
$\int sin^n(a+bx)\cos(a+bx)\,dx$