Name:_____ Band:_____

Calculus | Packer Collegiate Institute | 2008-2009

Antiderivatives, Easy Ones and Harder Ones

Find the antiderivatives of the following:

"easy"	"hard"
1. $\cos(1-x)$	11. $-\sqrt{2}x^2\sqrt{1+x^3}$
2. $5x^3 - x^{-2} - x^{3/5}$	12. $\dfrac{x}{(x^2+9)^3}$
3. $\dfrac{1}{\sqrt{x}}$	13. $\dfrac{11}{(8x+5)^3}$
4. $x^{-9/5}$	14. $\dfrac{x^2+2x}{(x^3+3x^2+9)^4}$
5. $(4t-9)^{-3}$	15. xe^{-x^2}
6. $\dfrac{3}{x^{3/2}}$	
7. $18\sin(3x+8)$	
8. $\dfrac{8}{x^2}+3e^x$	
9. $2x+e^{14-2x}$	
10. $8x^3+3x^2-3$	

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