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Calculus I -- Sage 
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 5DQ The Sage Notebook Calculus I Save Save & quit Discard & quit last edited on August 31, 2010 09:43 PM by admin File... • Action • Data... • sage • Typeset Print Worksheet Edit Text Undo Share Publish  $plot(2^x, (x, -3, 3), aspect_ratio=1) + plot((1/2)^x, (x, -3, 3),$ aspect\_ratio=1) 7 6 3 2 plot(2^x, (x, -3, 3), aspect\_ratio=1) + plot(3^x, (x, -3, 3),
aspect\_ratio=1) + plot((1/2)^x, (x, -3, 3), aspect\_ratio=1) +
plot((1/3)^x, (x, -3, 3), aspect\_ratio=1) 25 20 15 10 plot(e^x, (x, -3, 3), aspect\_ratio=1) 20 15 5  $plot(2^x, (x, -5, 5)) + plot(3^x, (x, -5, 5)) + plot(e^x, (x, -5, 5))$ 200 150 100 50  $plot(e^x, (x, -5, 5), aspect_ratio=1)$ 140 120 100 80 60 40 20 plot(e^x, (x, -7, 7), aspect\_ratio=1) 1000 800 600 200 color='gray') 25 20 15 10 5 15 30 20 25  $\label{eq:plot(e^x, (x, -3, 1), aspect_ratio=1)+ plot(log(x), (x, 0.05, 3), aspect_ratio=1) + plot(x, (x, -2, 2), aspect_ratio=1,$ color='gray') -1 -1 -2 2.5 2 1.5 0.5 2.5 -0.5 0.5 1.5 -0.5 plot(log(x,2), (x, 0.05, 10), aspect\_ratio=1) + plot(log(x,1/2), (x, 0.05, 10), aspect\_ratio=1) 4 3 2 1 -1 -2 -3  $plot(log(x,2), (x, 0.05, 10), aspect_ratio=1) + plot(log(x,3), (x, 0.05, 10), aspect_ratio=1)$ 3 1 8 -1 -2 plot(log(x,1/2), (x, 0.05, 10), aspect\_ratio=1) + plot(log(x,1/3),
(x, 0.05, 10), aspect\_ratio=1) 4 3 2 10 -1 -2 -3 plot(log(x), (x, 0, 150), aspect\_ratio=1) 20 40 60 100 140 120 80 plot(sin(x), (x, -pi/2, pi/2), aspect\_ratio=1) +plot(asin(x), (x,
-1, 1), aspect\_ratio=1, color='red') + plot(sin(x), (x, -pi/1.5, -pi/2), aspect\_ratio=1, color='gray')+ plot(sin(x), (x, pi/2, pi/1.5), aspect\_ratio=1,color='gray') 1.5 0.5 -1 -1.5 -0.5 0.5 1.5 -0.5 -1 -1.5 plot(cos(x), (x, 0, pi), aspect\_ratio=1) +plot(acos(x), (x, -1, 1), aspect\_ratio=1, color='red') + plot(cos(x), (x, -pi/3, 0), aspect\_ratio=1,color='gray')+ plot(cos(x), (x, pi, pi/0.75),
aspect\_ratio=1,color='gray')+plot(x, (x, -0.1, 3), color='gray') 3 2.5 2 1.5 -1 -0.5 -1  $\begin{array}{l} \text{plot(tan(x), (x, -3/2.1, 3/2.1), aspect\_ratio=1) +plot(atan(x),} \\ \text{(x, -7, 7), aspect\_ratio=1, color='red') +plot(x, (x, -5, 5),} \\ \text{color='gray')} \end{array}$ <u>evaluate</u> 6 4 2 -6 -4 4 -2 -4

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