**Differentiate the following.**

1. http://01.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_39.gif
2. http://02.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_40.gif
3. http://03.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_41.gif
4. http://04.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_42.gif
5. http://00.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_43.gif
6. http://01.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_44.gif
7. http://02.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_45.gif
8. http://03.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_47.gif
9. http://04.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_48.gif
10. http://00.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_49.gif
11. http://01.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_50.gif
12. http://02.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_51.gif
13. Find the second derivative of http://03.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_52.gif
14. What is the slope of the tangent line to http://04.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_53.gif

**Differentiate the following.**

1. *y* = csc(*x*)
2. *y* = cot(*x*)
3. *f*(*x*) = *x*tan(*x*)
4. http://00.edu-cdn.com/files/static/learningexpressllc/9781576855362/The_Product_and_Quotient_Rules_68.gif