**Use the product rule to differentiate the following, show all work! (Check your answers at wolframalpha.com)**

Macintosh HD:Users:Student:Desktop:Screen Shot 2013-10-24 at 8.27.53 AM.png

Macintosh HD:Users:Student:Desktop:Screen Shot 2013-10-24 at 8.28.15 AM.png

**2**

**Use the quotient rule to differentiate the following, show all work! (Check your answers at wolframalpha.com)**