For questions 1 and 2 you'll be using the product rule. For 3 and 4 you'll use the quotient rule. For question 5 you will need to differentiate in parts.

1. 
$$(x^2 + 3x + 5)sinx$$

$$2. \sqrt[3]{x} * cotx$$

$$3. \ \frac{x^2-9x+7}{\sin x}$$

4. 
$$\frac{\cos x + x^3}{7\tan x}$$

5. 
$$3x^3 * cosx * cscx$$