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Differentiation Quiz 1

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Differentiate 1-7:

1. $\sqrt[3]{2x+7}$.

2. $\sin^3(x^2)$.

3. $\frac{2+e^x}{3+e^x}$.

4. $\tan^{-1}(2\cos(x))$.

5. $\sqrt{x^2+x^{-2}} \cdot e^{x^2}$.

6. $\ln \frac{x+3}{x+2}$.

7. $x^{\ln x}$.

8. Implicitly differentiate both sides with respect to x :

$$\frac{x}{y} = \sin y.$$