## Source:

## 1 | lamar chain rule

1.1 | 4

$$\frac{\partial}{\partial w}\sqrt{w^3 + 8w^2} = \frac{\left(3w^2 + 16w\right)}{2\sqrt{w^3 + 8w^2}}$$

1.2 | 8

$$\frac{\partial}{\partial x}\tan\left(1-2e^x\right) = -2e^x\sec^2\left(1-2e^x\right)$$

- 1.3 | 9
- 1.4 | 13
- 1.5 | 42
- 1.6 | 43