## 2-6 Videos Guide

2-6a

- Two ways to find $\frac{d y}{d x}$ for $x^{2}+y^{2}=25$

2-6b
Exercises:

- Find $\frac{d y}{d x}$ by implicit differentiation.
- $y^{5}+x^{2} y^{3}=1+x^{4} y$
- $\cos (x y)=1+\sin y$

2-6c

$$
x y=\sqrt{x^{2}+y^{2}}
$$

- Find $y^{\prime \prime}$ by implicit differentiation. Simplify where possible. $x^{3}-y^{3}=7$

