

The **Chain Rule** is required for finding the derivative of the trigonometric functions in three scenarios.

1. Trig Functions with Unusual Angles

Ex: _____, _____

2. Trig Functions raised to a Power

Ex: _____, _____

3. Combination of both

Ex: _____, _____

Trig Functions with Unusual Angles:

Steps:

1. _____
2. _____

Examples:

1. $y = \sin(3x)$

2. $y = \tan(6x^2 - 5)$

Trigonometric Functions raised to a Power:

Steps:

1. _____
2. _____
3. _____

Examples:

3. $y = \cos^4 x$

4. $y = 3 \cot^2 x$

Name: _____

Combination of both:

Steps:

1. _____

2. _____

3. _____

4. _____

5. $y = \cos^3(4x)$

6. $y = \csc^4(5x^3)$