Chapter 2	Derivatives

Chapter 2 Prerequisite Skills

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Justifications may vary. For example:

- a) polynomial; The variables and constants in the function are either added or subtracted together.
- b) sinusoidal; The sine function is a sinusoidal function.
- e) polynomial; The variables and constants in the function are either added or subtracted together.
- d) root; The function is the square root of a variable.
- e) exponential; The function consists of a constant raised to the power of a variable.
- f) rational; The function is expressed as the ratio of two polynomials.
- g) logarithmic; The function is logarithmic since it is of the form log_b(x), where b = 3 is the base. The function can be written implicitly as 3' = x.
- b) polynomial; After expanding the function, all the terms are variables or constants that are either added or subtracted together.

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- a) m = 2 so the perpendicular slope to m is $-\frac{1}{2}$.
- **b)** m = -5 so the perpendicular slope to m is $-\left(-\frac{1}{5}\right) = \frac{1}{5}$.
- c) $y = \frac{2}{3}x 6$, so $m = \frac{2}{3}$ and the slope perpendicular to m is $-\frac{3}{2}$.
- d) m = 0 so the perpendicular slope to m is undefined.
- e) m = 1 so the perpendicular slope to m is -1.
- m is undefined so the perpendicular slope to m is 0.

Mhr Calculus And Vectors 12 Solutions Derivatives

Christian Drosten

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