Looking at Derivatives

What does it look like

- Since the derivative is the slope it is positive when the function is going up and negative when the function is going down

- f'(x) = 0 when the function is flat

When?

- If f(x) is not continuous at b then f is not differentiable at b

- If f(x) has a cornner at b then f is not differentiable at b

- If f(x) has a vertical tangent at b then f is not differentiable at b

Questions?

Examples

- Ex1

- Ex2

- Ex3

- Ex4

- Ex5

- Ex6