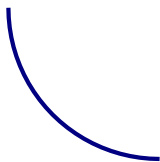


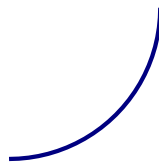
$$f'(x) < 0$$

$$0 < f'(x)$$

$$0 < f''(x)$$

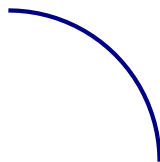


Here  $y = f(x)$  is decreasing, while the rate itself is increasing. In this case the curve is **concave up**.

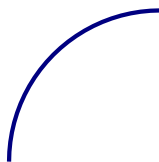


Here  $y = f(x)$  is increasing, while the rate itself is increasing. In this case the curve is **concave up**.

$$f''(x) < 0$$



Here  $y = f(x)$  is decreasing, while the rate itself is decreasing. In this case the curve is **concave down**.



Here  $y = f(x)$  is increasing, while the rate itself is decreasing. In this case the curve is **concave down**.