

# Exam VWO Math B

## Formula sheet

### Trigonometry

$$\sin(t + u) = \sin(t) \cos(u) + \cos(t) \sin(u)$$

$$\sin(t - u) = \sin(t) \cos(u) - \cos(t) \sin(u)$$

$$\cos(t + u) = \cos(t) \cos(u) - \sin(t) \sin(u)$$

$$\cos(t - u) = \cos(t) \cos(u) + \sin(t) \sin(u)$$

$$\sin(2t) = 2 \sin(t) \cos(t)$$

$$\cos(2t) = \cos^2(t) - \sin^2(t) = 2 \cos^2(t) - 1 = 1 - 2 \sin^2(t)$$