## A - Level Maths 15 Minute Boost 3

What symbol is used to represent the rational numbers?

What is the discriminant
for the quadratic
$a x^{2}+b x+c$ ?
$\sqrt{a b}=$
How do you find the
distance between
$A\left(x_{A}, y_{A}\right)$ and $B\left(x_{B}, y_{B}\right)$ ?

When is a sequence $x_{n}$ decreasing?

1) Find the cartesian form of the equation with parametric form $x=2+3 \cos (\theta)$ and $y=1+\sin (\theta)$

2 a) Find $\int x^{-2} \ln (x) d x$
b) Hence, find the area of the region bounded by the function $f(x)=x^{-2} \ln (x)$, the $x$-axis and the lines $x=1$ and $x=3$.

