

Recognising and Sketching Curves *ramp up*

a Which graph is $y = (x+1)(x-1)^2$? _____	b $y = 3 \times 2^x$. Find x when $y = 24$ _____	c Solve $\sin x = -0.5$ from 0° to 360° _____	d Find the asymptote of $y = 2^x + 3$ _____
e Find its equation _____	f $y = a \times b^x$ passes through $(0, 3)$ and $(2, 12)$. Find a and b. _____	g Solve $\tan x = -1$ from 0° to 360° _____	h Solve $2 \sin x = \sqrt{3}$ from 0° to 360° _____
i Find the two asymptotes of $y = \frac{1}{x-2}$ _____	j Find the cubic with a repeated root at 2, a root at -1 and y intercept 8 _____	k Find where $y = \sin x$ and $y = \cos x$ meet, from 0° to 360° _____	l $y = x^3 - 3x$ turns at $(-1, 2)$ and $(1, -2)$. Find k for one solution of $x^3 - 3x = k$ _____

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