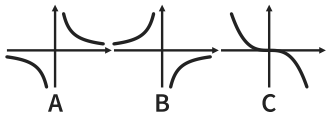
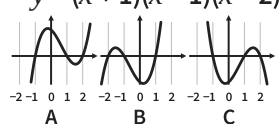
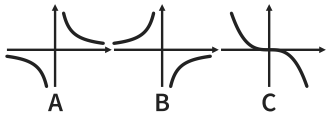
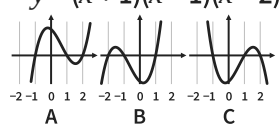


a What type of graph is $y = 3^x$? <i>exponential</i> x in the power: exponential	b Where does $y = (x - 1)(x + 2)(x - 3)$ cross the x axis? <i>-2, 1, 3</i> the roots of a factorised cubic	c Where does $y = (x + 1)(x - 2)(x - 4)$ cross the y axis? <i>(0, 8)</i> the y intercept of a cubic	d $y = 5 \times 2^x$. Find y when $x = 3$ <i>40</i> the power first, then multiply
e $y = 2^x$. Find x when $y = 32$ <i>x = 5</i> an exponential worked backwards	f Which is $y = -\frac{1}{x}$?  <i>B</i> the shape of $y = -1/x$	g Which graph is $y = (x + 1)(x - 1)(x - 2)$?  <i>A</i> matching a cubic from its roots	h $\sin 30^\circ = 0.5$. Find the other x from 0° to 360° with $\sin x = 0.5$ <i>150^\circ</i> the symmetry of the sine graph
i $\cos 60^\circ = 0.5$. Find the other x from 0° to 360° with $\cos x = 0.5$ <i>300^\circ</i> the symmetry of the cosine graph	j $\tan 45^\circ = 1$. Find the other x from 0° to 360° with $\tan x = 1$ <i>225^\circ</i> tan repeats every 180°	k How many solutions does $\sin x = 0.3$ have from 0° to 720° ? <i>4</i> solutions over two cycles	l Find where $y = \frac{1}{x}$ meets $y = 4x$ <i>(0.5, 2), (-0.5, -2)</i> a reciprocal meets a line: two points

a What type of graph is $y = 3^x$? <i>exponential</i> x in the power: exponential	b Where does $y = (x - 1)(x + 2)(x - 3)$ cross the x axis? <i>-2, 1, 3</i> the roots of a factorised cubic	c Where does $y = (x + 1)(x - 2)(x - 4)$ cross the y axis? <i>(0, 8)</i> the y intercept of a cubic	d $y = 5 \times 2^x$. Find y when $x = 3$ <i>40</i> the power first, then multiply
e $y = 2^x$. Find x when $y = 32$ <i>x = 5</i> an exponential worked backwards	f Which is $y = -\frac{1}{x}$?  <i>B</i> the shape of $y = -1/x$	g Which graph is $y = (x + 1)(x - 1)(x - 2)$?  <i>A</i> matching a cubic from its roots	h $\sin 30^\circ = 0.5$. Find the other x from 0° to 360° with $\sin x = 0.5$ <i>150^\circ</i> the symmetry of the sine graph
i $\cos 60^\circ = 0.5$. Find the other x from 0° to 360° with $\cos x = 0.5$ <i>300^\circ</i> the symmetry of the cosine graph	j $\tan 45^\circ = 1$. Find the other x from 0° to 360° with $\tan x = 1$ <i>225^\circ</i> tan repeats every 180°	k How many solutions does $\sin x = 0.3$ have from 0° to 720° ? <i>4</i> solutions over two cycles	l Find where $y = \frac{1}{x}$ meets $y = 4x$ <i>(0.5, 2), (-0.5, -2)</i> a reciprocal meets a line: two points