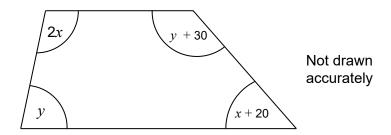


Topic Test 1 (20 minutes)

Simultaneous equations (non-calculator) - Higher

1 Here is a trapezium.



Which two of these equations are true?

Circle your answers.

[1 mark]

$$2x + y = 180$$

$$2x + y = 180$$
 $x + y = 160$ $x + y = 130$ $2x + y = 150$

$$x + y = 130$$

$$2x + y = 150$$

2 Solve the simultaneous equations.

$$2x + y = 13$$

$$x + 2y = 17$$

Do **not** use trial and improvement.

[3 marks]

3	A tea and a two buns costs £3.00 Two teas and three buns costs £5.10 Work out the cost of two teas and a bun.	[3 mark	[S]
	Answer £		
4	The cost of one CD and one DVD is £22 A DVD is £4 more expensive than a CD. Work out the cost of a CD and a DVD.	[4 mark	ເຮ]
	CD = £		
	DVD = £		

	2x + 3y = 70	
	3x + 2y = 130	
Do not use trial and	mprovement.	
		[4 m
	<i>x</i> =	
	<i>y</i> =	
Solve the simultaneo	us equations	
Colve the simulation	us equations.	
	$y = x^2 + x - 3$	
	y = 2x + 3	
		FE
		[5 m
	x =	

5

Solve the simultaneous equations.