1 Solve 3x = 2x

Circle your answer.

[1 mark]

$$x = -1$$

$$x = 0$$

$$x = 0 x = \frac{2}{3} x = \frac{3}{2}$$

$$x=\frac{3}{2}$$

2	Solve	$\frac{x+15}{3} = 2(x+10)$		[4 marks

- A curve has the equation $y = x^2 6x + 17$ The turning point of the curve is at (a, 8)
- 3 (a) The turning point of the curve $y = x^2 + 4x + b$ also has y-coordinate 8 Work out the value of b.

Work out the value of b .	[2 marks

Answer _____

4	Here	is an	identity.

$$a(3x-10) \equiv 21x+2b$$

Work out the values of a and b .	[3 marks]

a = _____ b = ____

5

Solve	1 <i>x</i> = 62.4	-3 <i>x</i>			[2 marks]
	χ	c =			

6	Solve	2w _	_ 4
J	Solve	15	5

[2 marks]	10 0	

W = _____

7	Solve	5(2x-1) = 6x + 9	[3 marks]

8
$$(a-3)x^2 + 2b \equiv 5x^2 + 12$$

Work out the values of a and b.

[2 marks]

a = _____ *b* = _____

9	Solve	5x + 11 = 3x + 19	[2 marks]

10	Solve	$\frac{x+8}{}$ +	9-x	= 4
	00.70	2	5	•

		[4 marks]

 $\mathbf{r} =$

11

Solve $7x - 22 = 4x + 29$	[3 r