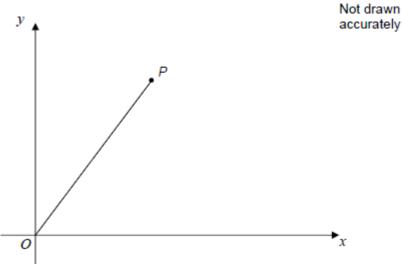
Q1.

The diagram shows a line joining O to P.



The gradient of the line is 2

The length of the line is	$\sqrt{2645}$
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Work out the coordinates of P.

Answer (,)

(Total 4 marks)

Q2.	Solve the simultaneous equations	
	$y = x^2 - 6x - 20$	
	y = 4 - x	
	You must show your working.	
	Answer	(Total 5 marks
		`
Q3.	Solve the simultaneous equations	
	y = 4x + 1	
	$y = 2x^2 + 7x - 1$	

	Answer
	(Total 5 marks)
Q4.	
	Solve the simultaneous equations
	$4x + y = -3$ and $y = x^2 + 2x + 5$
	Do not use trial and improvement. You must show your working.
	Answer(Total 6 marks)

Q5.Work out the points of intersection of the graphs of

	y = (x+3)(x-5)	
and	y = 4x + 1	
Answer		otal 6 marks)
	(1	otai o marks
Q6.Solve the simultaneous equ	uations	
$y - x = 2$ $y = 2x^2 + $	5r + 1	
Give your answers corre		
Give your answers conte	ot to 1 decimal place.	

	Answer	•
		(Total 6 marks)
Q7. (a) S	Show clearly that $(3x + 1)^2 = 9x^2 + 6x + 1$	
		(1)
		(1)
(b)	Solve the simultaneous equations $y = 3x + 1$ $y^2 = 4x^2 - x + 7$	
	Answer	(5) (Total 6 marks)

Q8.

(Total 5 marks)

^ -	
$y^2 = 4x + 5$	
Do not use trial and improvement.	
A	
Answer	(Total 6 ma
Solve the simultaneous equations	
y = 10 - x	
•	
$y = 2x^2 + 4$	
$y = 2x^2 + 4$	