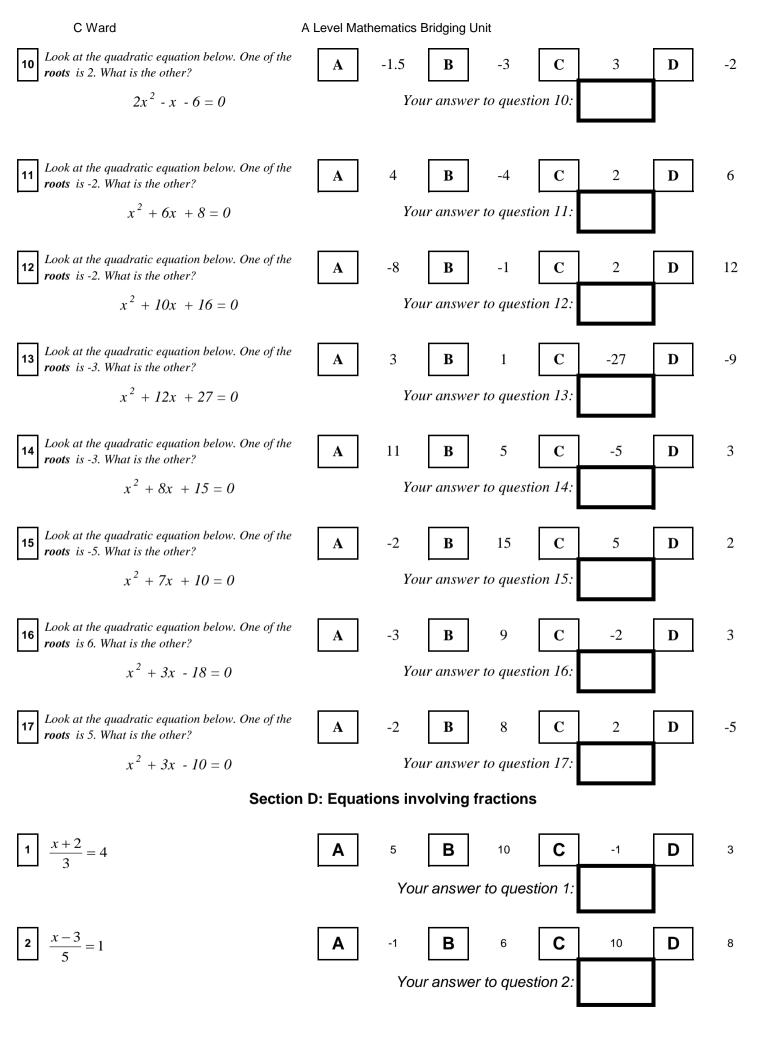
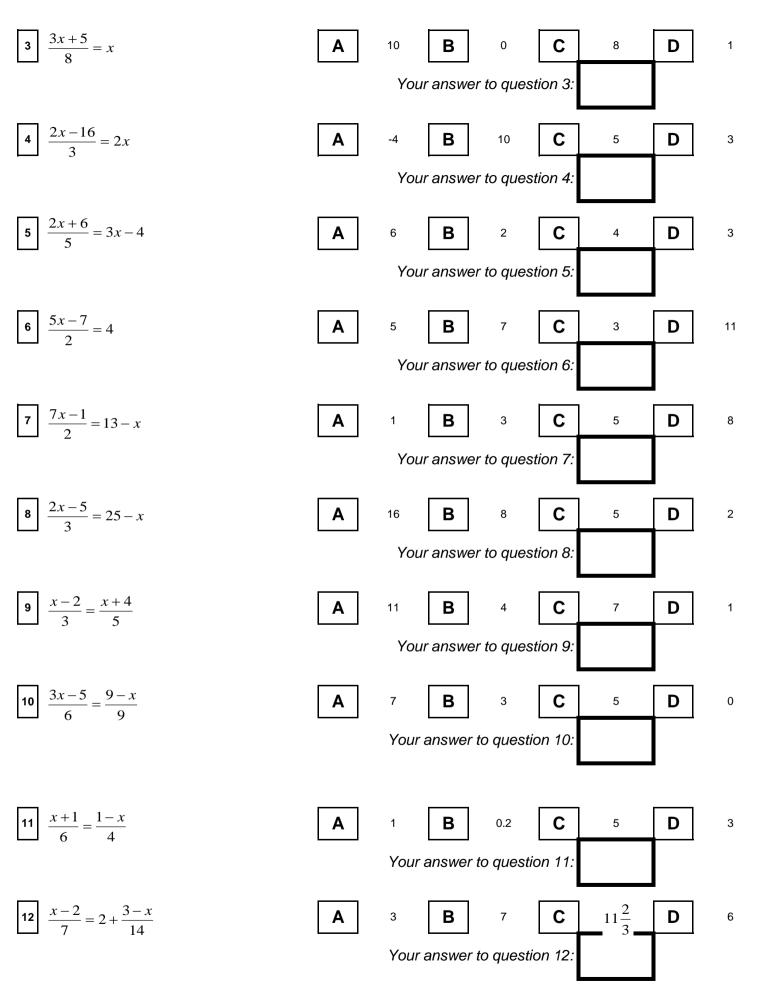
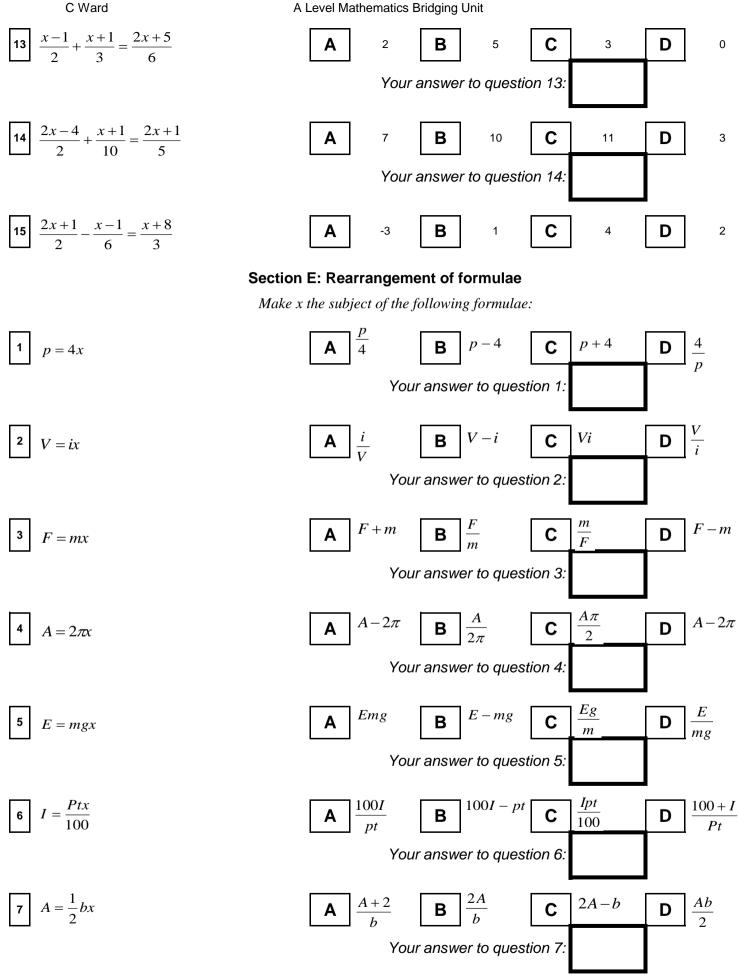


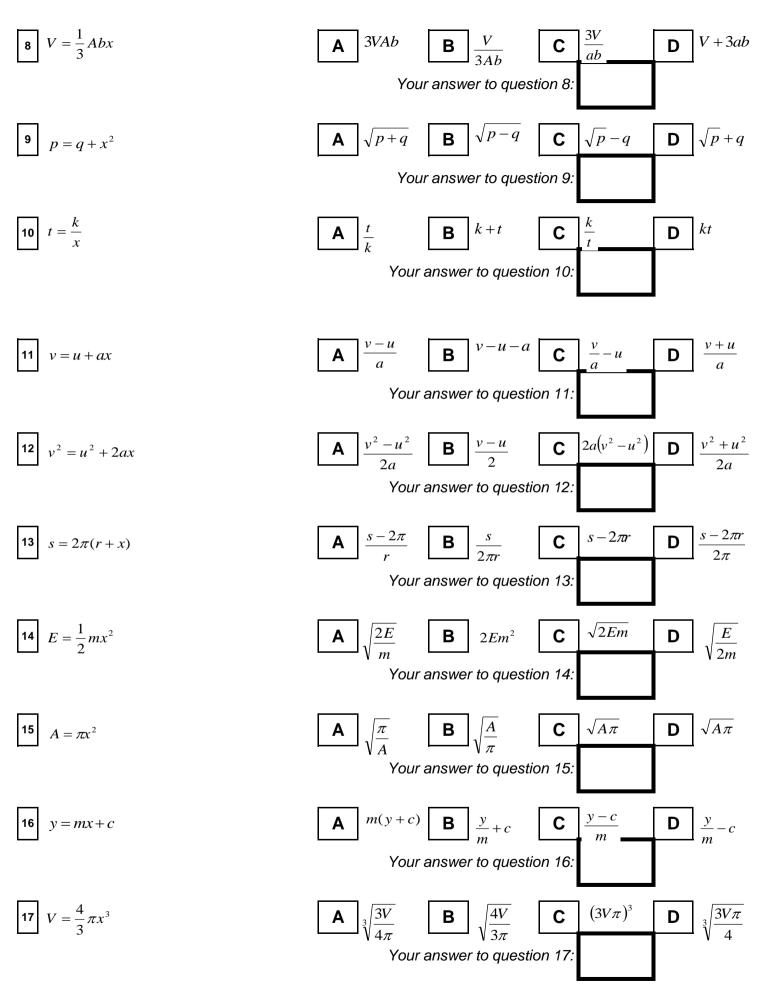
C Ward A Level Mathematics Bridging Unit **4**  $r^{10} \div r^2$  $r^6$  $r^8$ В С  $r^5$ D Α  $r^{12}$ Your answer to question 4: **5**  $b^3 \times b^{-4}$ **A**  $b^{-1}$ В С b  $b^{-12}$ D  $b^7$ Your answer to question 5: **6**  $k^5 \div k^{-4}$  $k^9$  $k^{-9}$ Α В С  $k^{5}$ D k Your answer to question 6: **7**  $b^{-2} \times b^{-4}$ В С  $b^{-6}$  $b^2$ Α  $b^{-8}$ D  $b^{-2}$ Your answer to question 7: **8**  $3b^3 \times 2b^5$  $6b^{15}$  $5b^{8}$  $6b^{8}$  $5b^{15}$ В С Α D Your answer to question 8: **9**  $6r^5 \div 3r$  $3r^4$  $2r^4$  $3r^5$ В  $2r^5$ С Α D Your answer to question 9: **10**  $12g^2 \div 4g^5$  $3g^3$ **B**  $\frac{3}{g^3}$  $8g^3$  $\frac{8}{g^3}$ С Α D Your answer to question 10: **11**  $(2x)^2$ **A**  $4x^2$ В  $2x^2$ С 2x4xD Your answer to question 11: 12  $\frac{a^2b \times ab}{b^2}$  $a^2b$  $a^2b^2$  $\frac{a^3}{b}$  $a^3$ В С D Α Your answer to question 12: 13  $\frac{2c^3 \times 6bc}{8b^2c^2}$  $\frac{12bc^2}{b^2}$  $\frac{3b}{4c^3}$  $\frac{3c^2}{2b}$ Α В С D bcYour answer to question 13:  $\frac{bc}{2}$  $\frac{ab^3 \times abc}{2a^2b^3}$ **A**  $\frac{c}{2}$  $\frac{bc^2}{2a}$  $\frac{b}{2a}$ В С D Your answer to question 14:

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<b>15</b> $\frac{4cd^2 \times d^3}{6cd}$	<b>A</b> $\frac{2d^2}{3}$	$\frac{4}{2}$ <b>B</b> $2cd^5$	$\frac{2d^3}{3c}$	D	$\frac{5d^4}{6}$		
	-	Your answer to question			0		
Section C: Factorisation of a quadratic equation							
1 Look at the quadratic equation below. One of the roots is 4. What is the other?	Α	3 <b>B</b> -3	C 2	D	6		
$x^2 - x - 12 = 0$		Your answer to question	1:				
<b>2</b> Look at the quadratic equation below. One of the <b>roots</b> is 3. What is the other?	A	-4 <b>B</b> 6	C -3	D	-8		
$x^2 + 5x - 24 = 0$		Your answer to question	2:				
<b>3</b> Look at the quadratic equation below. One of the <b>roots</b> is 4. What is the other?	Α	9 <b>B</b> -4	C 12	D	1		
$x^2 + 36 = 13x$		Your answer to question	3:				
4 Look at the quadratic equation below. One of the <b>roots</b> is -1.5. What is the other?	Α	3 <b>B</b> 2	C -3	D	-6		
$2x^2 - x - 6 = 0$		Your answer to question	4:				
<b>5</b> Look at the quadratic equation below. One of the <b>roots</b> is -0.5. What is the other?	Α	-2 <b>B</b> 8	C -8	D	4		
$2x^2 - 7x - 4 = 0$		Your answer to question	5:				
<b>6</b> <i>Look at the quadratic equation below. One of the roots is -3. What is the other?</i>	Α	$\frac{4}{3}$ <b>B</b> -6	C -3	D	4		
$3x^2 + 5x - 12 = 0$		Your answer to question	6:				
<b>7</b> Look at the quadratic equation below. One of the <b>roots</b> is -6. What is the other?	Α	5 <b>B</b> 1	С б	D	-5		
x(x+5)=6		Your answer to question	7:				
<b>8</b> Look at the quadratic equation below. One of the <b>roots</b> is 0.5. What is the other?	<b>A</b> 1	5 <b>B</b> -0.5	C 3	D	-3		
$4x^2 - 9x = -3 - x$		Your answer to question	8:				
<b>9</b> Look at the quadratic equation below. One of the <b>roots</b> is -2. What is the other?	A	-5 <b>B</b> 2	C 5	D	1		
x(x - 1) - 2(x + 5) = 0		Your answer to question	9:				







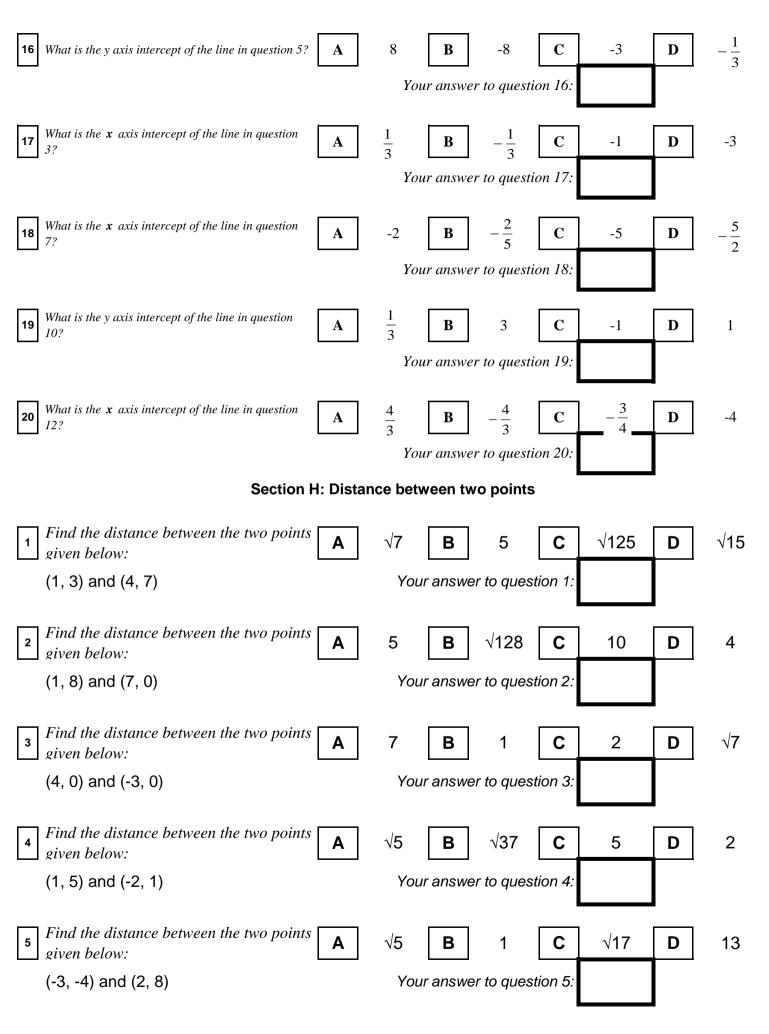


C Ward A Level Mathematics Bridging Unit  $P = \frac{mx^2}{2}$ Pm  $(Pmr)^2$ Α В С D Your answer to question 18: Section F: Simultaneous equations *Look at the equations below. The solutions to x and y* Α 3 and 2 4 and -1 В С D 4 and 1 7 and -2 in that order are: x + y = 5Your answer to question 1: and x - y = 3Look at the equations below. The solutions to x and y Α -3 and 18 В С 2 3 and 9 D 3 and 6 2 and 8 in that order are: 2x + y = 124x - y = 6Your answer to question 2: and Look at the equations below. The solutions to x and y Α В 4 and 13 С 3 4 and 3 7 and 1 D 1 and 5 in that order are: 2x + 3y = 174x - 3y = 7Your answer to question 3: and Look at the equations below. The solutions to x and y В 1.5 and 2.5 Α 2 and 0 С 6 and -20 D 3 and 2 in that order are: 5x + y = 10and 3x - y = 2Your answer to question 4: Look at the equations below. The solutions to x and y В С Α 1 and 10 5 and 2 D 3 and 6 5 6 and 0 in that order are: 2x + y = 12Your answer to question 5: x + y = 7and Look at the equations below. The solutions to x and y Α 3 and 1 В 5 and 7 С D 2 and -2 3 and -1 in that order are: Your answer to question 6: 3x - y = 83x - 2y = 7and Look at the equations below. The solutions to x and y Α 3 and 1 В 2 and 5 С 6 and -5 2 and 3 D in that order are: Your answer to question 7: 2x + y = 7and x + y = 5Look at the equations below. The solutions to x and y В 8 Α 12 and 1 19 and -14 С -2 and -1 D 19 and 2 in that order are: x - 7y = 5x - 5y = 9Your answer to question 8: and Look at the equations below. The solutions to x and y Α В С D 7 and -1 9 5 and 3 4 and 4 0 and 8 in that order are: x + y = 8and x - y = 2Your answer to question 9:

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<b>10</b> <i>Look at the equations below. The in that order are:</i>	solutions to x and y	7 and 10	3 and -2	<b>C</b> 6 and 1	D	5 and 4	
3x - y = 11 and	3x - 2y = 13	Your answe	r to question	n 10:			
_			. –		eð 		
11 <i>Look at the equations below. The</i> <i>in that order</i> are:	solutions to x and y	1 and 3 <b>B</b>	7 and 10	<b>C</b> 4 and 1.5	D	7 and 0	
$x + 2y = 7 \qquad and$	3x - 4y = 21	Your answe	r to question	n 11:			
<b>12</b> Look at the equations below. The in that order are:	solutions to x and y	-1 and 5 <b>B</b>	3 and 1	<b>C</b> 6 and -2	D	-3 and 2	
x + y = 4 and	3y - x = 16	Your answe	r to question	n 12:			
<b>13</b> Look at the equations below. The <b>in that order</b> are:	solutions to x and y	5 and -3 <b>B</b>	3 and 2	<b>C</b> 4 and -0.5	D	6 and 1	
5x + 2y = 19 and	7x - y = 19	Your answe	r to question	n 13:			
I ook at the equations below. The	solutions to x and y	ı —	ı –				
14Look at the equations below. The in that order are:	<b>A</b>	1 and 0.5 <b>B</b>	2 and 0.25	<b>C</b> 7 and -1	D	6 and -1	
$x + 4y = 3 \qquad and$	2x - 8y = -2	Your answe	r to question	n 14:			
<b>15</b> <i>Look at the equations below. The in that order are:</i>	solutions to x and y	2 and 1 <b>B</b>	1 and 4	<b>C</b> 3 and -2	D	4 and -3	
3x + y = 7 and	x + y = 5	Your answe	r to question	n 15:			
Section G: The equation of the line y = mx + c							
<b>1</b> What is the gradient of the line w below:	ith equation given A	3 <b>B</b>	2	<b>C</b> -3	D	$\frac{1}{2}$	
y = 3x + 2		Your ans	wer to questio	on 1:		3	
y							
<b>2</b> What is the gradient of the line w below:	ith equation given <b>A</b>	2 <b>B</b>	5	C -5	D	$\frac{1}{5}$	
y = 5x + 2		Your ans	wer to questio	on 2:			
<b>3</b> What is the gradient of the line w below:	ith equation given	-1 <b>B</b>	1	C 3	D	$\frac{1}{3}$	
y = 3x - 1		Your ans	wer to questio	on 3:			
<b>4</b> What is the gradient of the line w below:	Α	$\frac{1}{2}$ <b>B</b>	2	C 3	D	-3	
$y = \frac{x}{2} + 3$		Your ans	wer to questio	on 4:			

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<b>5</b> What is the gradient of the line with equation give below:	n A	8 <b>B</b>	$\frac{1}{3}$	С	-8	D	$-\frac{1}{3}$
$y = -\frac{x}{3} + 8$		Your answe	er to quest	tion 5:			5
6 What is the gradient of the line with equation give	n A	-3 <b>B</b>	7	С	3	D	$-\frac{1}{3}$
below: y = 7 - 3x		Your answe	er to quest	tion 6:			3
<b>7</b> What is the gradient of the line with equation give	n A	-5 <b>B</b>	5	С	2	D	1
below: y = 5x + 2		Your answe			2		$-\frac{1}{5}$
8 What is the gradient of the line with equation give	n 🔒	4 <b>B</b>	-4	С	2	D	3
below: 2y = 4x + 3	Α	Your answe	-		2		3
Ut at is the same list of the line with some time size	. []			L 			
<b>9</b> What is the gradient of the line with equation give below:	n A	2 <b>B</b>	4	C	-2	D	-4
y - 2x = 4		Your answe	er to quest	tion 9:			
<b>10</b> What is the gradient of the line with equation give below:	n A	-3 <b>B</b>	3	С	1	D	-1
y - 3x + 1 = 0		Your answer	r to questic	on 10:			
<b>11</b> What is the gradient of the line with equation give below:	n A	-4 <b>B</b>	4	С	-8	D	$-\frac{5}{2}$
2y + 8x + 5 = 0		Your answei	r to questic	on 11:			2
<b>12</b> What is the gradient of the line with equation give below:	n A	3 <b>B</b>	4	С	-3	D	$\frac{4}{3}$
3x + y = 4		Your answer	r to questic	on 12:			3
<b>13</b> What is the gradient of the line with equation give below:	n A	$\frac{1}{3}$ <b>B</b>	$-\frac{2}{3}$	С	$-\frac{1}{3}$	D	3
$\frac{x}{3} + \frac{y}{2} = 1$		Your answer	U	on 13:			
<b>14</b> What is the gradient of the line with equation give below:	n A	$\frac{3}{8}$ <b>B</b>	$\frac{1}{4}$	С	$-\frac{1}{4}$	D	$-\frac{3}{2}$
$\frac{x}{4} - \frac{2y}{3} = 1$		8 Your answer	-	on 14:	т т		2
<b>15</b> What is the y axis intercept of the line in question	1? <b>A</b>	2 <b>B</b>	3	С	-2	D	-3
		Your answer	r to questic	on 15:			

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<b>6</b> <i>Find the distance between th</i> given below:	The two points <b>A</b> $\sqrt{61}$ <b>B</b> $\sqrt{11}$	<b>C</b> 11	D	√17
(1, 2) and (5, 3)	Your answer to quest	tion 6:		
<b>7</b> <i>Find the distance between the given below:</i>	The two points <b>A</b> $\sqrt{5}$ <b>B</b> 3	<b>C</b> √3	D	2
(1, 1) and (2, -1)	Your answer to quest	tion 7:		
<b>8</b> <i>Find the distance between the given below:</i>	the two points <b>A</b> $\sqrt{181}$ <b>B</b> $2\sqrt{5}$	<b>C</b> √18	D	18
(3, 3) and (5, 7)	Your answer to quest	tion 8:		
<b>9</b> <i>Find the distance between th given below:</i>	the two points <b>A</b> $\sqrt{10}$ <b>B</b> $\sqrt{13}$	<b>C</b> 2√5	D	√68
(3, 3) and (5, -1)	Your answer to quest	tion 9:		
<b>10</b> <i>Find the distance between the given below:</i>	The two points <b>A</b> $3\sqrt{2}$ <b>B</b> $\sqrt{10}$	<b>C</b> √5	D	2
(-1, 0) and (2, 3)	Your answer to question	on 10:		