

1 Write the following in the form $(x + a)^2 + b$ where a and b are integers:

1(a) $x^2 + 4x + 5$

[2 marks]

Answer _____

1(b) $x^2 - 14x - 1$

[2 marks]

Answer _____

1(c) $x^2 - 24x + 5$

[2 marks]

Answer _____

Turn over for next question

Turn over ►

2 Write the following in the form $(x + a)^2 + b$ where a and b are integers:

2(a) $x^2 + 10x + 8$

[2 marks]

Answer _____

2(b) $x^2 - 4x + 16$

[2 marks]

Answer _____

2(c) $x^2 - 8x + 14$

[2 marks]

Answer _____

Turn over for next question

Turn over ►

3 Write the following in the form $(x + a)^2 + b$ where a and b are integers:

3(a) $x^2 + 6x + 20$

[2 marks]

Answer _____

3(b) $x^2 + 12x - 8$

[2 marks]

Answer _____

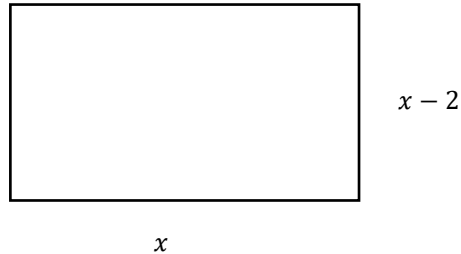
3(c) $x^2 - 2x - 6$

[2 marks]

Answer _____

Turn over for next question

- 4 A rectangle has sides of x and $(x - 2)$ cm
The area of the rectangle is 3 cm^2



Not drawn
accurately

- 4(a) Show that $(x - 1)^2 - 4 = 0$

[3 marks]

Answer _____

- 4(b) Hence, or otherwise, find the perimeter of the rectangle.

[3 marks]

Answer _____

Turn over for next question

5 Bob adds a number, that is larger than 1, to its reciprocal.

His answer is 4.

Find Bob's number in the form $a \pm \sqrt{b}$

[5 marks]

Answer _____



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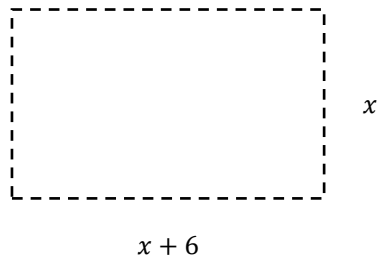
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Turn over ►

- 6 A small farmers field is shown below.

Not drawn
accurately



Given that the area of the field is 36 m^2

Find the perimeter of the field in meters.

Give your answer in the form $a\sqrt{5}$ where a is an integer.

[6 marks]

Answer _____

End of Questions