

ACTION

RESPONSE

Write these expressions in the form $(x + p)^2 + q$

1. $x^2 + 6x + 10$

4. $x^2 + 14x$

2. $x^2 + 4x + 7$

5. $x^2 + 8x + 20$

3. $x^2 + 10x + 20$

6. $x^2 - 6x + 10$

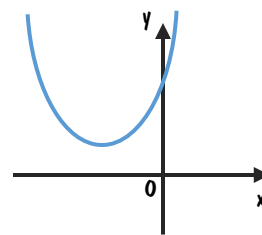
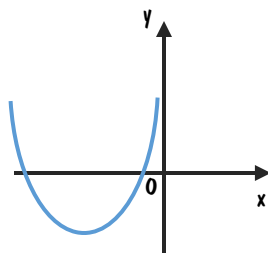
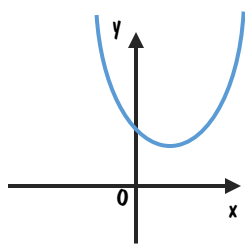
Fluency



Reasoning



Which parabola best represents the expression $x^2 + 10x + 18$.



Problem Solving



Expand and factorise the expressions below:

1. $(x-1)^2 - 4$

2. $(x-3)^2 - 4$

3. $(x-6)^2 - 4$

4. $(x-5)^2 - 4$

Can you find other examples? Generalisation? Proof?



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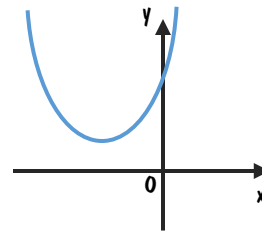
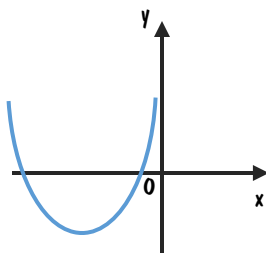
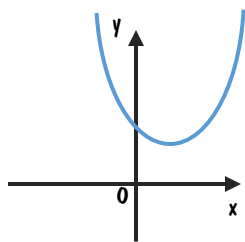
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