

| 3 Forms of Quadratic Equations | | |
|--------------------------------|---------------------------|----------------------|
| Standard | Factored | Vertex |
| $y = ax^2 + bx + c$ | $y = a(x - r_1)(x - r_2)$ | $y = a(x - h)^2 + k$ |

Write each quadratic equation in the requested form.

1. Write in vertex form: $y = x^2 + 10x + 27$

2. Write in standard form: $y = 2(x + 3)^2 - 5$

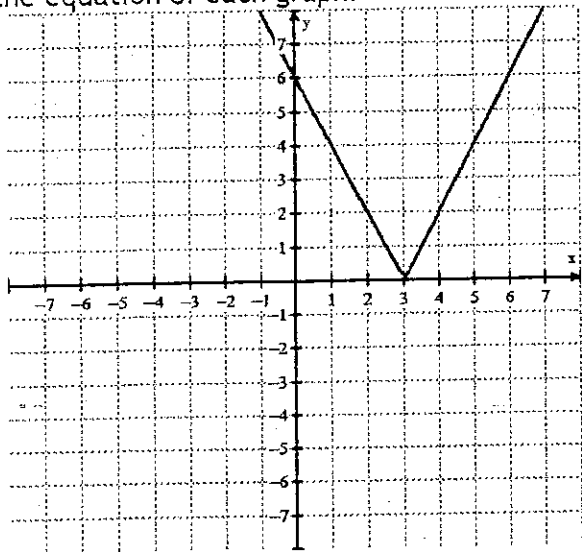
3. Write in factored form: $y = 6x^2 + 9x - 27$

4. Write in factored form: $y = (x - 1)^2 - 4$

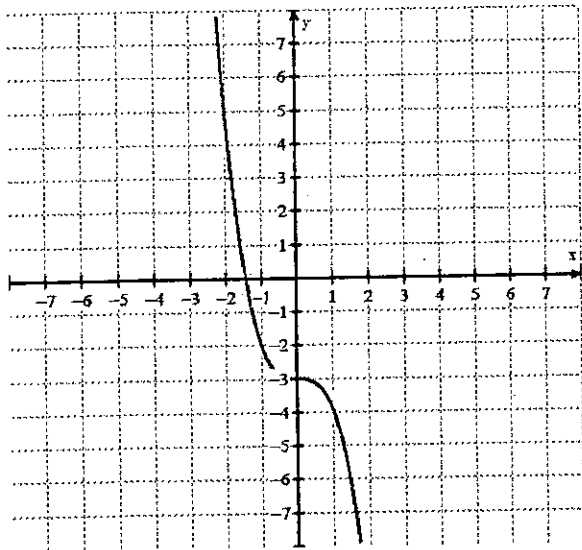
5. Write in vertex form: $y = 2x^2 + 12x - 4$



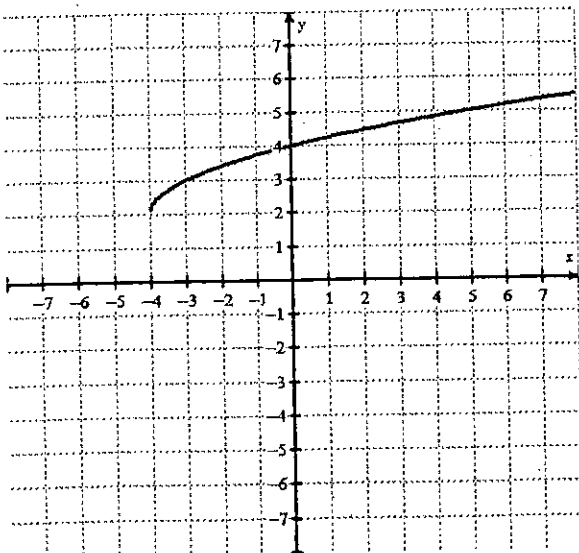
Write the equation of each graph.



6.



7.



8.