Solve and find the vertex

Name _____ **Date** _____

Use the quadratic formula or factorise.

Problem	Answer	Problem	Answer
1. $x^2 - 5x + 6 = 0$		4. $x^2 + 2x + 5 = 0$	
2. $2x^2 - 4x - 6 = 0$		5. $3x^2 - 12 = 0$	
3. $x^2 + 4x + 4 = 0$		6. $-x^2 + 6x - 8 = 0$	

Notes

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Answer key — Solve and find the vertex

#	Problem	Answer
1	$x^2 - 5x + 6 = 0$	x = 2, 3; vertex (2.5, −0.25)
2	$2x^2 - 4x - 6 = 0$	x = 3, −1; vertex (1, −8)
3	$x^2 + 4x + 4 = 0$	x = −2 (double); vertex (−2, 0)
4	$x^2 + 2x + 5 = 0$	x = −1 ± 2i; vertex (−1, 4)
5	$3x^2 - 12 = 0$	x = ±2; vertex (0, −12)
6	$-x^2 + 6x - 8 = 0$	x = 2, 4; vertex (3, 1)

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