



QLD Y10 Sketching Parabolas Using The Quadratic Formula Revision Quiz 1

Want answers? Use QR or code **CAAB** on the Class Mathematics website.
Alternatively click [get answers](#) for instant access.

Page 1 of 4

Question 1

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks: i (1) ii (1) iii (1)

Use the discriminant to determine the number of intercepts for the following parabolas

i) $y = x^2 + 6x + 8$

ii) $y = x^2 + 6x + 9$

iii) $y = x^2 + 6x + 10$

i

ii

iii

43354

Question 2

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (2)

Determine the turning point (vertex) of the parabola $y = 2x^2 - 4x + 5$

43355

Question 3

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (2)

Determine the coordinates of the x -intercepts (in exact form) for the parabola
 $y = x^2 + 4x - 1$

43356



QLD Y10 Sketching Parabolas Using The Quadratic Formula Revision Quiz 1

Want answers? Use QR or code **CAAB** on the Class Mathematics website.

Alternatively click [get answers](#) for instant access.

Page 2 of 4

Question 4

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (3)

Sketch the graph of $y = 2x^2 - 3x - 2$ using the vertex and the y intercept.



43357

Question 5

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (3)

Sketch the graph of $y = -x^2 + 2x + 4$ using the vertex and the y intercept.



43358



QLD Y10 Sketching Parabolas Using The Quadratic Formula Revision Quiz 1

Want answers? Use QR or code **CAAB** on the Class Mathematics website.

Page 3 of 4

Alternatively click [get answers](#) for instant access.

Question 6

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks: i (1) ii (1) iii (1)

Use the discriminant to determine the number of intercepts for the following parabolas

i) $y = x^2 + 6x + 8$

ii) $y = x^2 + 6x + 9$

iii) $y = x^2 + 6x + 10$

i

ii

iii

43354

Question 7

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (2)

Determine the turning point (vertex) of the parabola $y = 2x^2 - 4x + 5$

43355

Question 8

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (2)

Determine the coordinates of the x -intercepts (in exact form) for the parabola $y = x^2 + 4x - 1$

43356



QLD Y10 Sketching Parabolas Using The Quadratic Formula Revision Quiz 1

Want answers? Use QR or code **CAAB** on the Class Mathematics website.

Alternatively click [get answers](#) for instant access.

Page 4 of 4

Question 9

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (3)

Sketch the graph of $y = 2x^2 - 3x - 2$ using the vertex and the y intercept.



43357

Question 10

PARABOLAS AND OTHER GRAPHS ▾ SKETCHING PARABOLAS USING THE QUADRATIC FORMULA

Marks (3)

Sketch the graph of $y = -x^2 + 2x + 4$ using the vertex and the y intercept.



43358