VERTEX FORM

How to calculate the…

VERTEX	X-INTERCEPT(S)	Y-INTERCEPT

Practice: Calculate the key features of each equation.

1. $y = 2(x - 5)^2 + 3$

Vertex:

X-intercept(s):

Y-intercept:

Open up or down?

2. $y = -\frac{1}{2}(x + 4)^2 + 1$

Vertex:

X-intercept(s):

Y-intercept:

Open up or down?

Factored Form

How to calculate the…

Vertex	X-intercept(s)	Y-intercept

Practice: Calculate the key features of each equation.

1. $y = -\frac{1}{2}(x+3)(x-5)$

Vertex:

X-intercept(s):

Y-intercept:

Open up or down?

2. $y = \frac{3}{2}(x+1)(x+7)$

Vertex:

X-intercept(s):

Y-intercept:

Open up or down?

Standard Form

How to calculate the…

Vertex	X-intercept(s)	Y-intercept

Practice: Calculate the key features of each equation.

1. $y = 3x^2 - x - 4$
Vertex:

X-intercept(s):

Y-intercept:

Open up or down?

2. $y = -x^2 - 6x - 8$
Vertex:

X-intercept(s):

Y-intercept:

Open up or down?