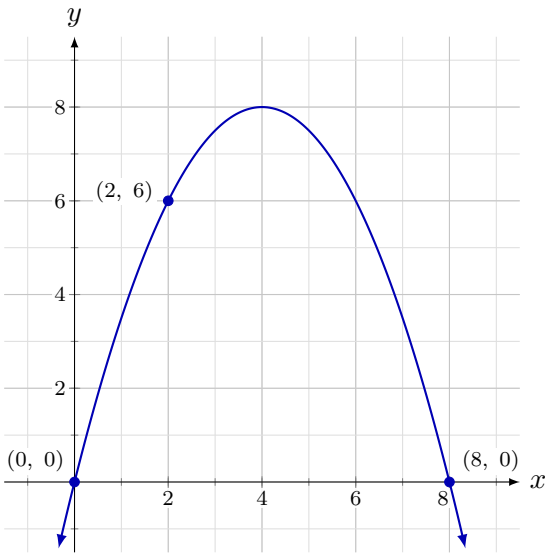
Warmup: Equations from Graphs in Both Forms

Adapted from Principles of Mathematics 10, McGraw-Hill Ryerson, 2007.

Work alone or with a partner.



1. This parabola crosses the x-axis at the two marked points. One more point is marked.

Write its equation.

$y =$ _____

_____

_____

2. The path of a ball has these same zeros. x and y are in metres. What do the two zeros tell you about the ball?

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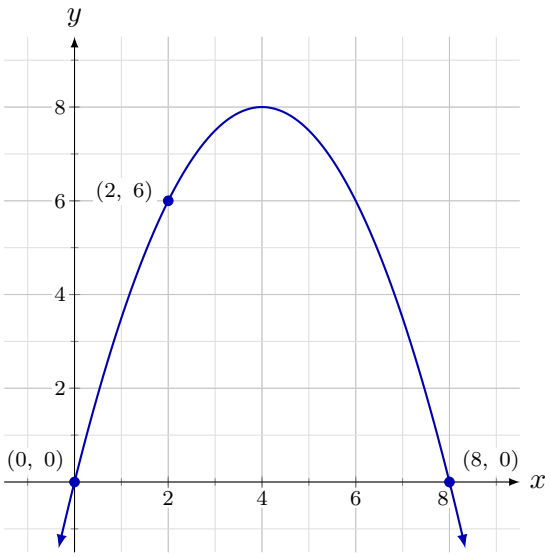
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Warmup: Equations from Graphs in Both Forms — Answers

Adapted from Principles of Mathematics 10, McGraw-Hill Ryerson, 2007.

Answers in blue.



1. This parabola crosses the x-axis at the two marked points. One more point is marked.

Write its equation.

The zeros are 0 and 8, so $y = ax(x-8)$. Substitute $(2,\ 6)$: $6 = a(2)(2-8) = -12a$, so $a = -\frac{1}{2}$.

$y = -\frac{1}{2}x(x-8)$

2. The path of a ball has these same zeros. x and y are in metres. What do the two zeros tell you about the ball?

Where the ball is at ground level (height 0): it leaves the ground at 0 m and lands 8 m away.