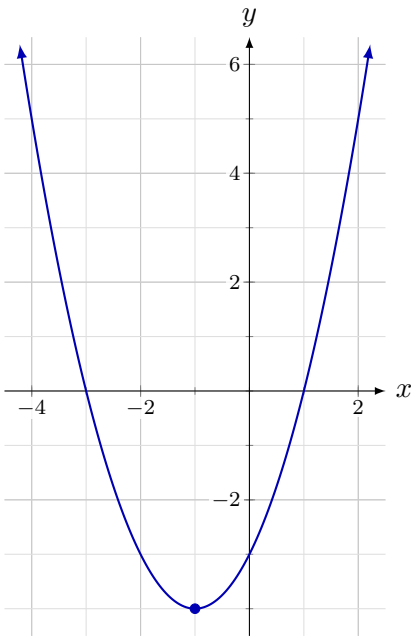
Warmup: Analysing Two Parabolas

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

Work alone or with a partner.

1. Find the value of each power. Write each answer as a whole number or a fraction.

a) $25^0 =$ _____ b) $6^{-3} =$ _____ c) $11^{-2} =$ _____



2. This parabola has the same shape as $y = x^2$. It has moved. Its vertex is marked.

Write its equation.

$y =$ _____

3. Another parabola has the same vertex. It passes through a point 1 unit right of the vertex and 3 units up. Is it narrower or wider than this one?

_____

_____

_____

Warmup: Analysing Two Parabolas — Answers

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

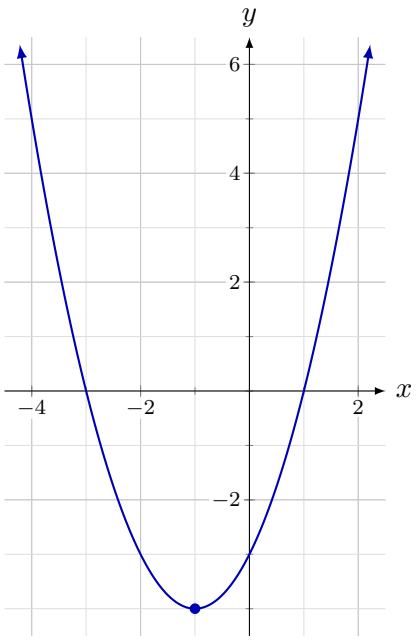
Answers in blue.

1. Find the value of each power. Write each answer as a whole number or a fraction.

a) $25^0 =$ 1

b) $6^{-3} = \frac{1}{6^3} = \frac{1}{216}$

c) $11^{-2} = \frac{1}{11^2} = \frac{1}{121}$



2. This parabola has the same shape as $y = x^2$. It has moved. Its vertex is marked.

Write its equation.

$y =$ $(x+1)^2 - 4$

3. Another parabola has the same vertex. It passes through a point 1 unit right of the vertex and 3 units up. Is it narrower or wider than this one?

Narrower. One step right of the vertex, it goes up 3. This parabola goes up only 1 there.