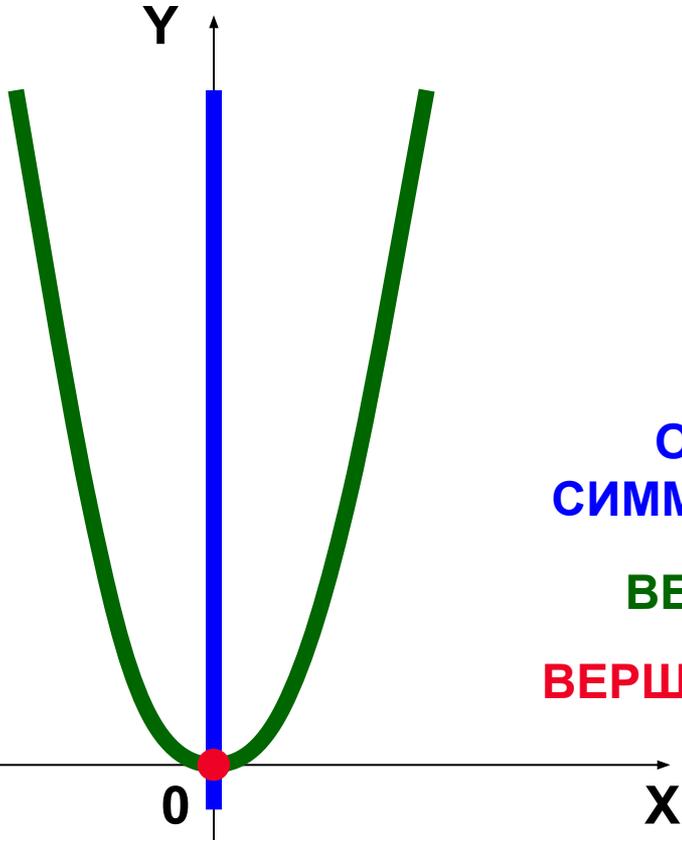


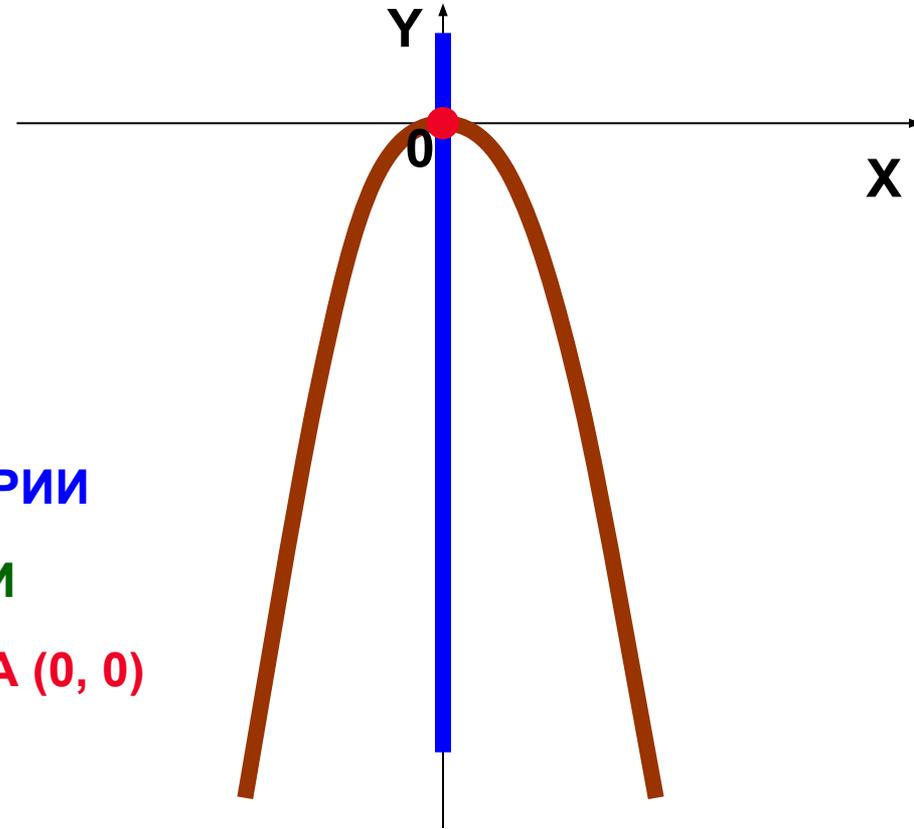
Использование ЦОРов
на уроках математики
Функция $Y = ax^2$

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2015 г.

$$y = x^2$$



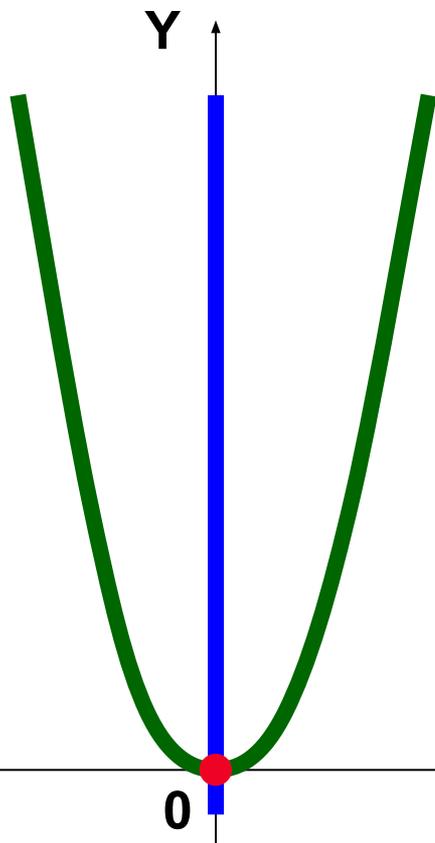
$$y = -x^2$$



ОСЬ
СИММЕТРИИ
ВЕТВИ
ВЕРШИНА (0, 0)

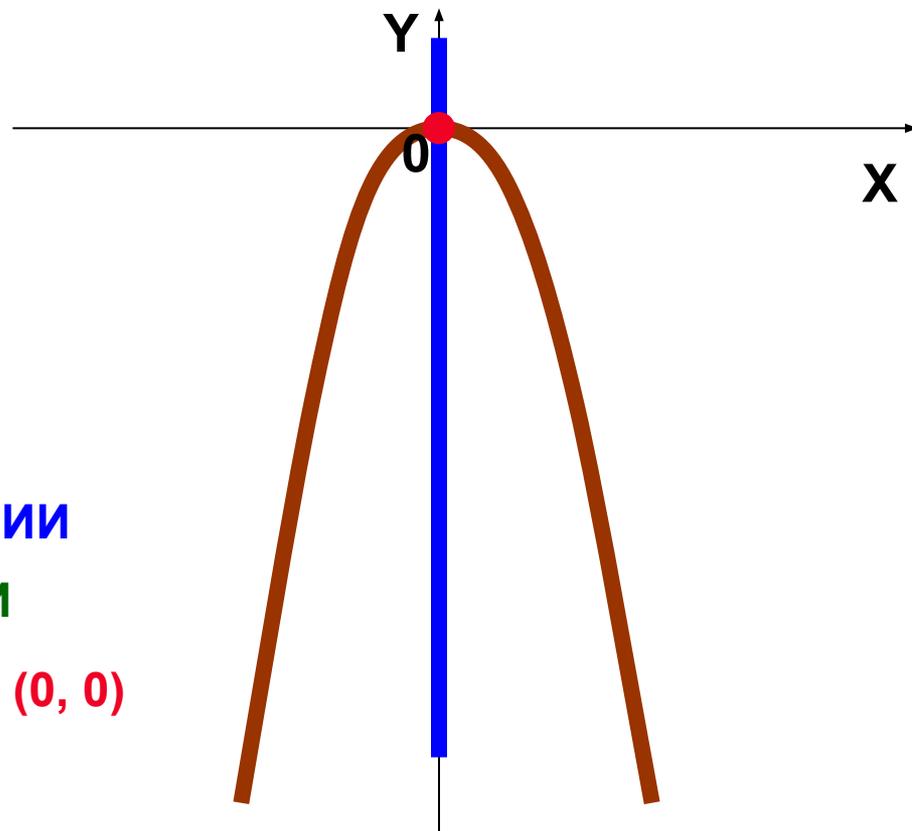
$$y = ax^2$$

$$a > 0$$



$$y = 2x^2$$

$$a < 0$$



$$y = -2x^2$$

ОСЬ
СИММЕТРИИ

ВЕТВИ

ВЕРШИНА (0, 0)

$$y = ax^2$$

$$a = 2$$

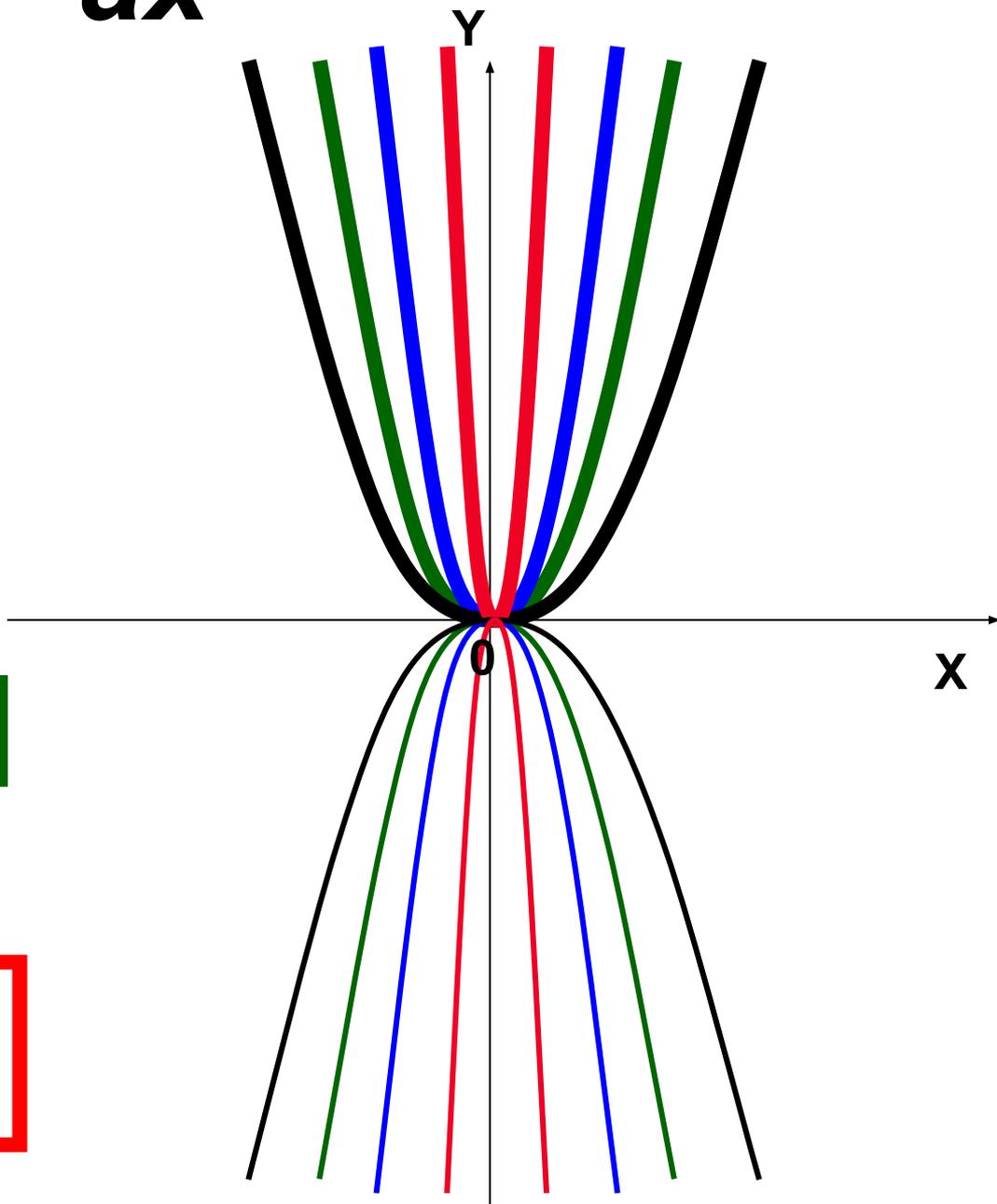
$$a = 3$$

$$a = 5\frac{1}{3}$$

$$a = -2$$

$$a = -3$$

$$a = -5\frac{1}{3}$$



$$|a| > 1$$

$$y = 2x^2$$

$$y = 3x^2$$

$$y = 5\frac{1}{3}x^2$$

$$y = -2x^2$$

$$y = -3x^2$$

$$y = -5\frac{1}{3}x^2$$

$$y = ax^2$$

$$0 < |a| < 1$$

$$a = \frac{5}{6}$$

$$a = \frac{1}{2}$$

$$a = \frac{1}{10}$$

$$a = -\frac{5}{6}$$

$$a = -\frac{1}{2}$$

$$a = -\frac{1}{10}$$

$$y = \frac{5}{6}x^2$$

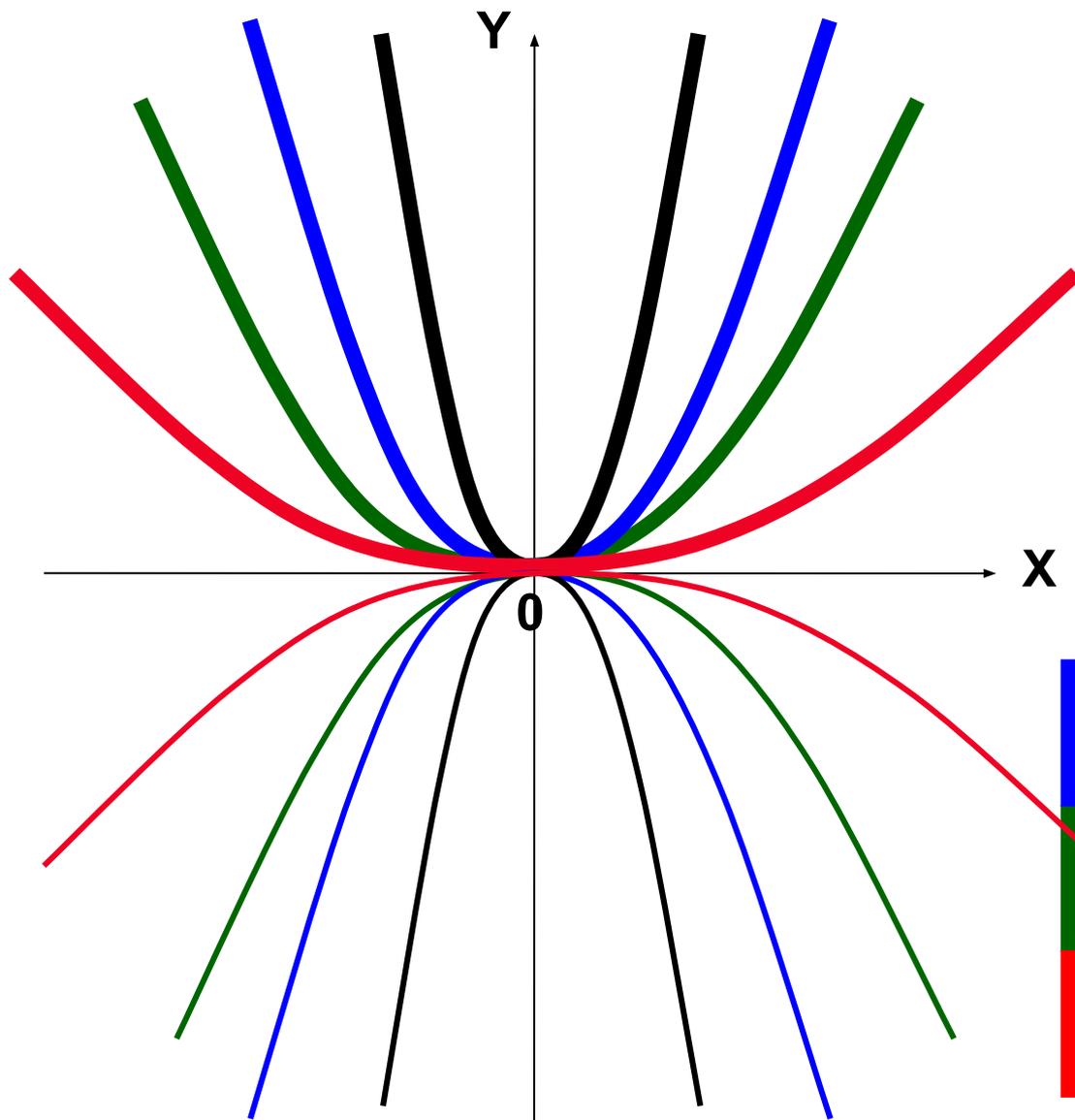
$$y = \frac{1}{2}x^2$$

$$y = \frac{1}{10}x^2$$

$$y = -\frac{5}{6}x^2$$

$$y = -\frac{1}{2}x^2$$

$$y = -\frac{1}{10}x^2$$



$$y = ax^2$$

Изменение графика в зависимости от коэффициента Изменение графика в зависимости от коэффициента *a*

$$y = ax^2$$



1. $y = 2x^2$

2. $y = -2x^2$

3. $y = -0,2x^2$

☞ 4. $y = 0,2x^2$

