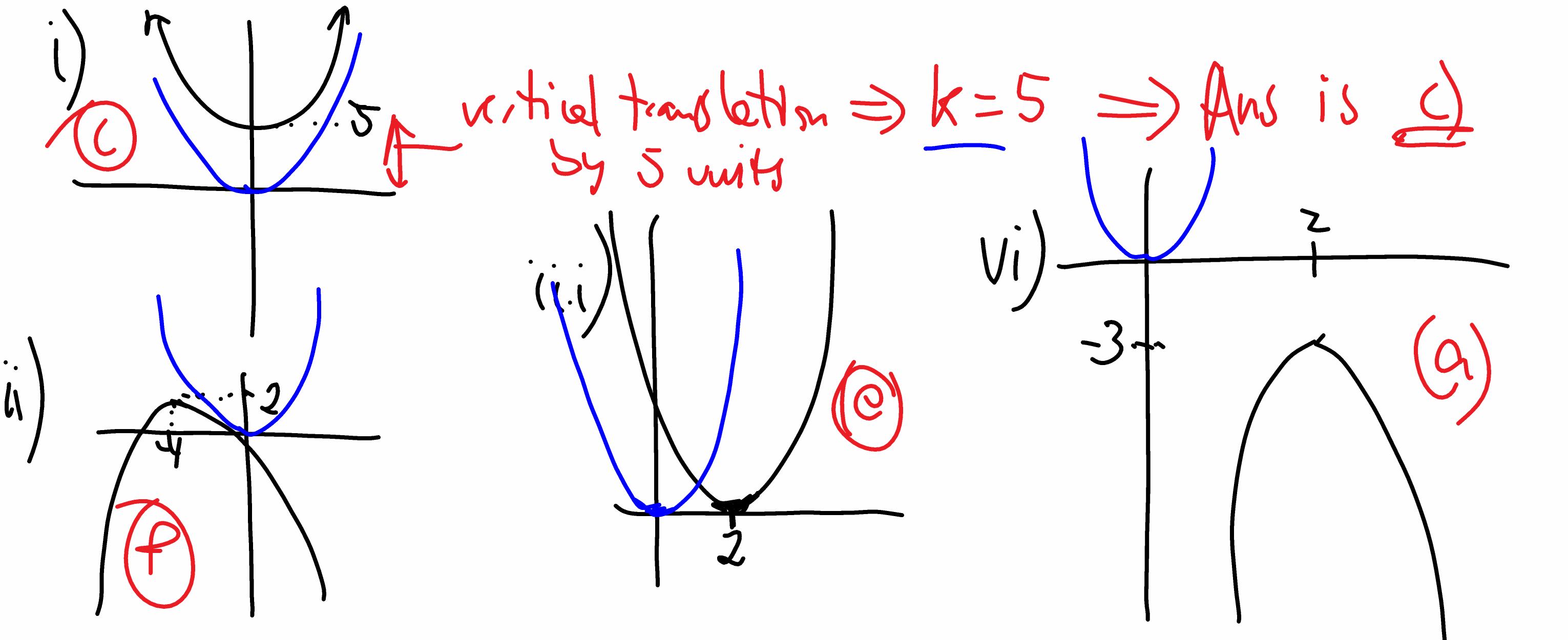


ASSIGNMENT

Base Quadratic $y = x^2$

Tue 4 Dec 2018

- pg 47 1)
- a) $y = -(x-2)^2 - 3$
 - b) $y = -0.5x^2 - 4$
 - c) $y = x^2 + 5$
 - d) $y = 2(x+2)^2$
 - e) $y = (x-2)^2$
 - f) $y = -\frac{1}{3}(x+4)^2 + 2$



- Paf 4) 2) i) identify a, h, k
- ii) identify transformation
 - iii) use transformation to graph
 - iv) check w/ a table of values or Geogebra
- Base Quadratic: $f(x) = x^2$

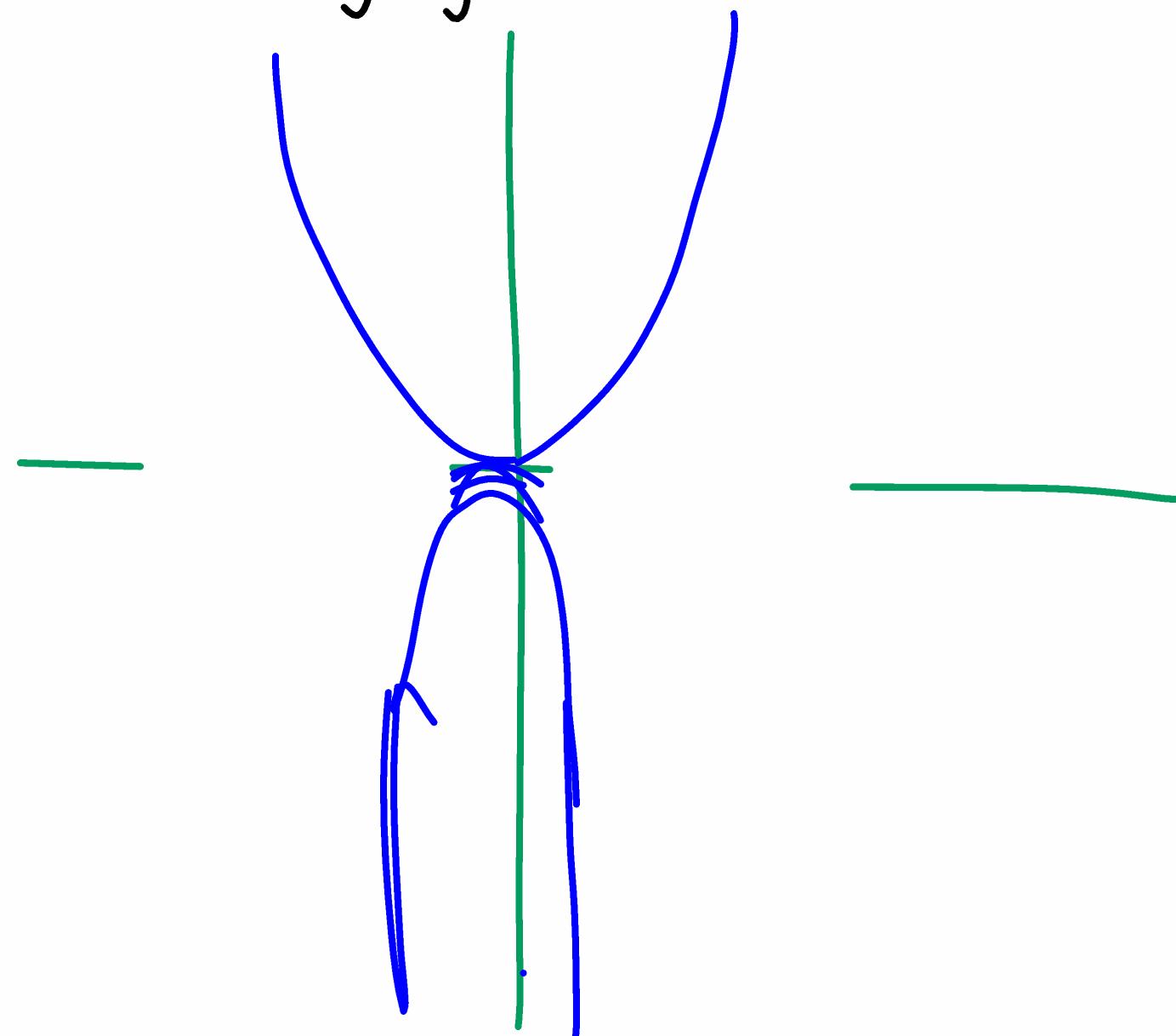
Q) $f(x) = -3x^2$

$$a = -3$$

$$h = 0$$

$$k = 0$$

Thinks
2 transformations
 - Reflection along x-axis
 - "It gets narrower"



$$b) f(x) = (x+3)^2 - 2$$

$$a = 1$$

$$h = -3$$

$$x - (-3) = x + 3$$

$$k = -2$$

Involves

- horizontal translation 3 to left

- vert. translation 2 units down

