ASSIGNMENT 5

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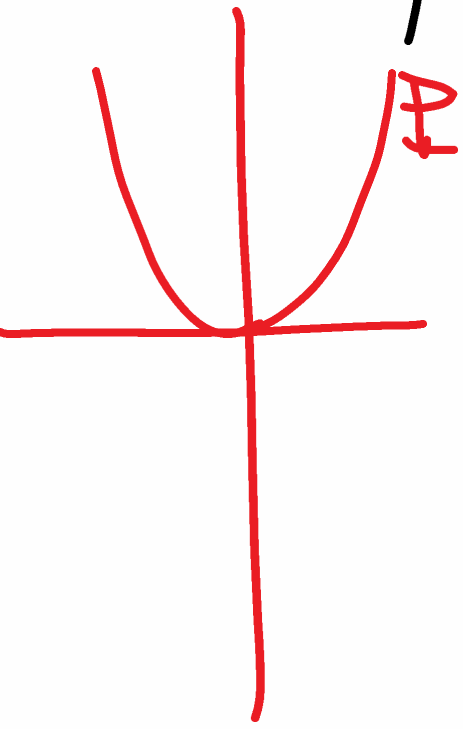
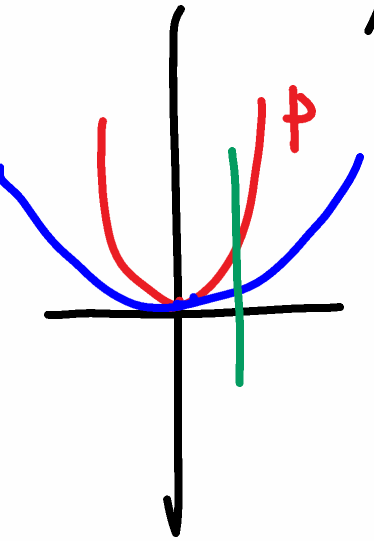


Consider a parabola P that is congruent to $y=x^2$ with vertex (0,0). Find the equation of a new parabola that results if P is

c) translated 2 units to the right & reflected in the x-axis

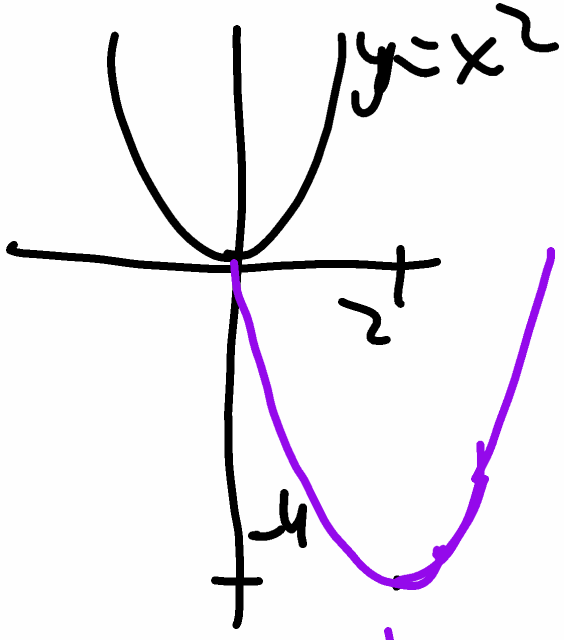
$$y = -(x-2)^2$$

d) Compressed vertically by 3 units, reflected in the x-axis & translated 2 units up



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

6) Consider a parabola P congruent with $y=x^2$ w/ vertex at $(2,-4)$. Find the equation that results if



h=2
k=-4

P: $y = (x-2)^2 - 4$

a) translated 2 units down: $y=(x-2)^2-6$

b) translated 4 units left: $y=(x+2)^2-4$

c) translated 2 units left & 3 up: $y=x^2-1$

d) translated 3 right, 1 down: $y=(x-5)^2-5$

HOMEWORK FOR THU 13 Dec 2018

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