Math 11 • Quadratic Functions

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sketch

[#1]
$$y = (x-4)^2 - 2$$
 [#2] $y = -2(x+3)^2 + 6$ [#3] $y = \frac{1}{2}x^2 - 5$

$$y = -2(x + 3)^2 + 6$$

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

state the following...

the equation of axis of symmetry

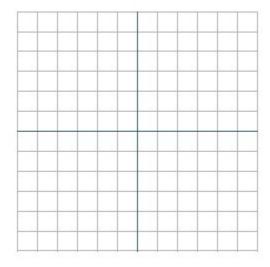
max/min value

domain

range

x-intercept(s) (zeros)

y-intercept



Write equations for each parabola described

[#4] vertex (1, -2) through point (5, –6)

[#5] vertex (2, 3) y-intercept 6

[#6] axis of symmetry x = -4maximum value y = 7congruent to $y = 3x^2 + 9$

write in graphing form

[#7]
$$y = x^2 - 8x + 3$$
 [#8] $y = 3x^2 + 18x + 1$ [#9] $y = -2x^2 + 8x + 3$

[#10]
$$y = x^2 - 3x$$
 [#11] $y = \frac{1}{3}x^2 - 2x + 1$ [#12] $h = -4.9t^2 + 8.82t + 1.9$

[#12] Fred has 24 m of fence to enclose a rectangular area. There is an existing wall so he need only fence three sides. What is the maximum area he can enclose?