

Name: _____

Date: _____

Learning Goal 3.2

Given a quadratic function, identify the characteristics of graphs, including domain, range, intercepts, vertex and the axis of symmetry.

Standard Form**Review of Factoring**

a. $f(x) = x^2 - 4x$

b. $g(x) = x^2 - 5x + 6$

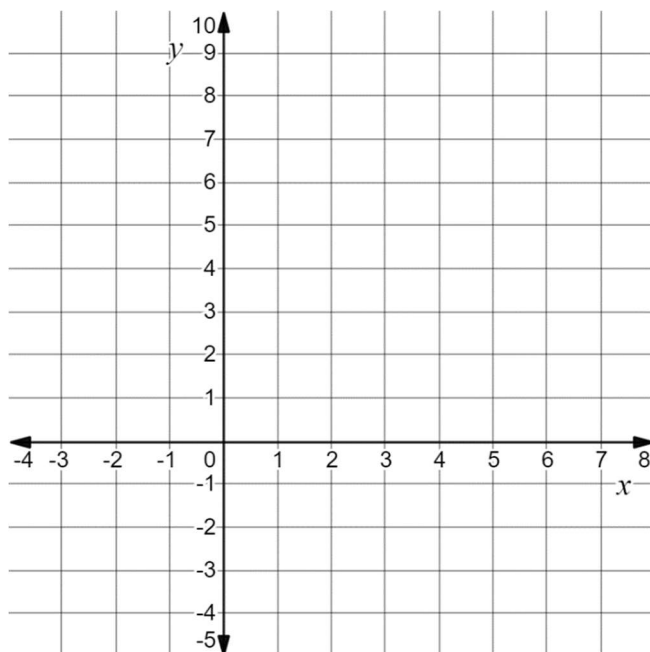
c. $h(x) = -x^2 + 2x + 8$

d. $j(x) = -2x^2 + 4x + 30$

e. $k(x) = -\frac{1}{4}x^2 - 3x + 7$

f. $m(x) = 2x^2 - 13x + 6$

Example Graph $n(x) = x^2 - 4x$ and find the x - intercept(s)

 y - intercept(s)

Domain

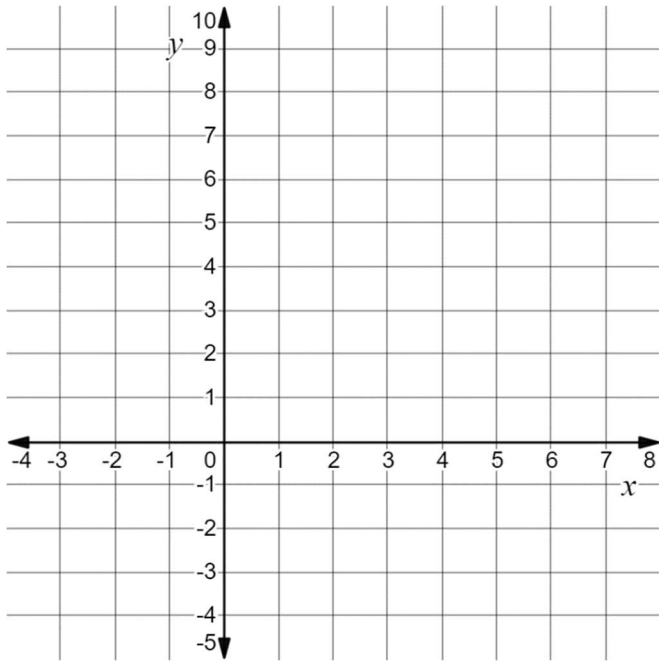
Range

Axis of Symmetry

Vertex

Max/Min and value

Example Graph $p(x) = x^2 - 5x + 6$ and find the x – intercept(s)



y – intercept(s)

Domain

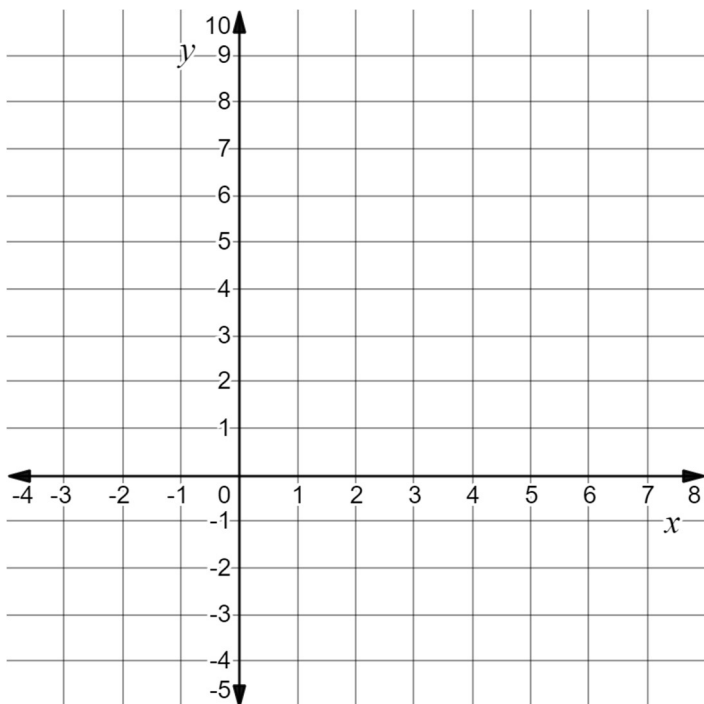
Range

Axis of Symmetry

Vertex

Max/Min and value

Example Graph $q(x) = -x^2 + 2x + 8$ and find x – intercept(s)



y – intercept(s)

Domain

Range

Axis of Symmetry

Vertex

Max/Min and value