

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.

Graph  $j(x) = -2x^2 + 4x + 30$  and find the $x$  – intercept(s) $y$  – intercept(s)

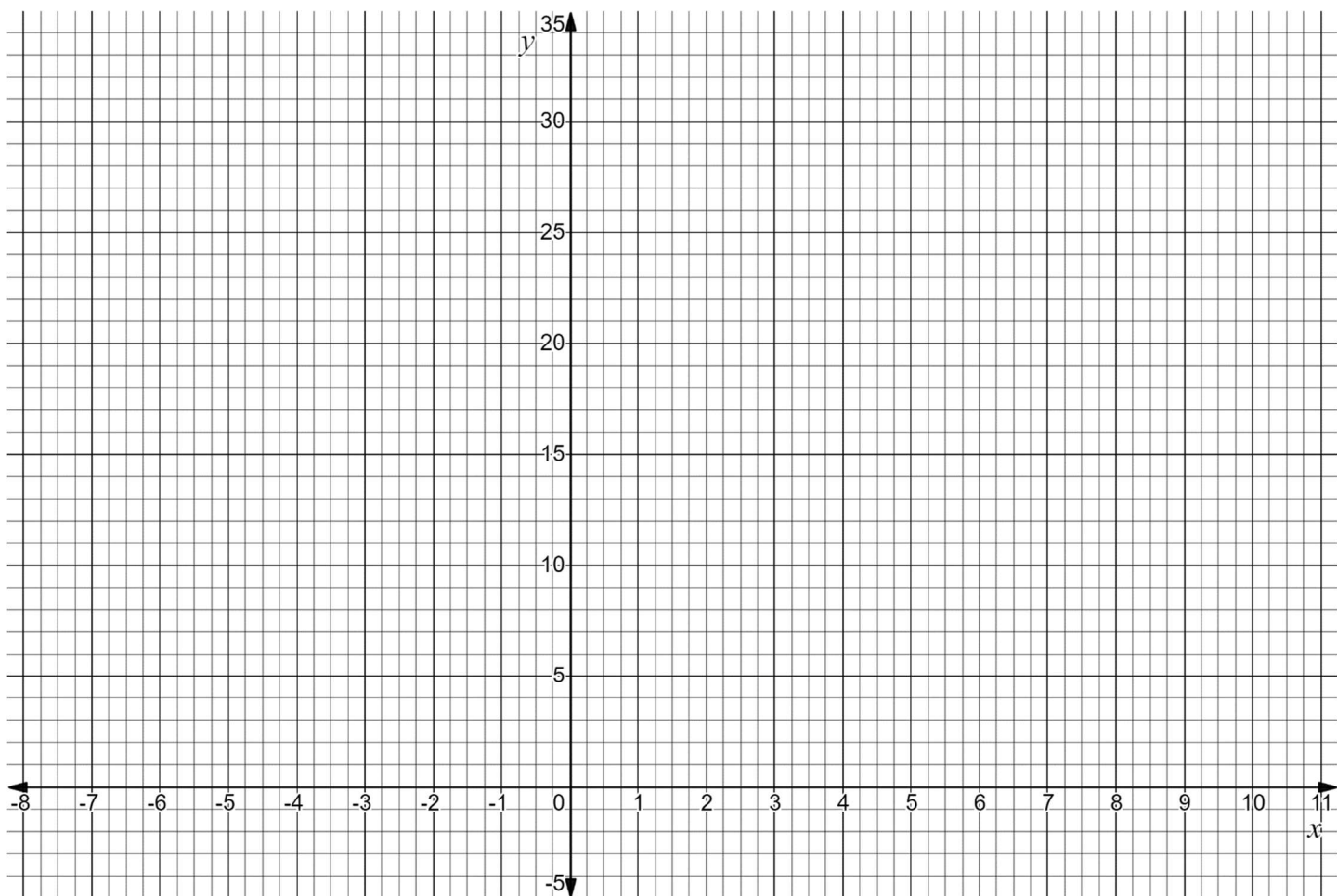
Domain

Range

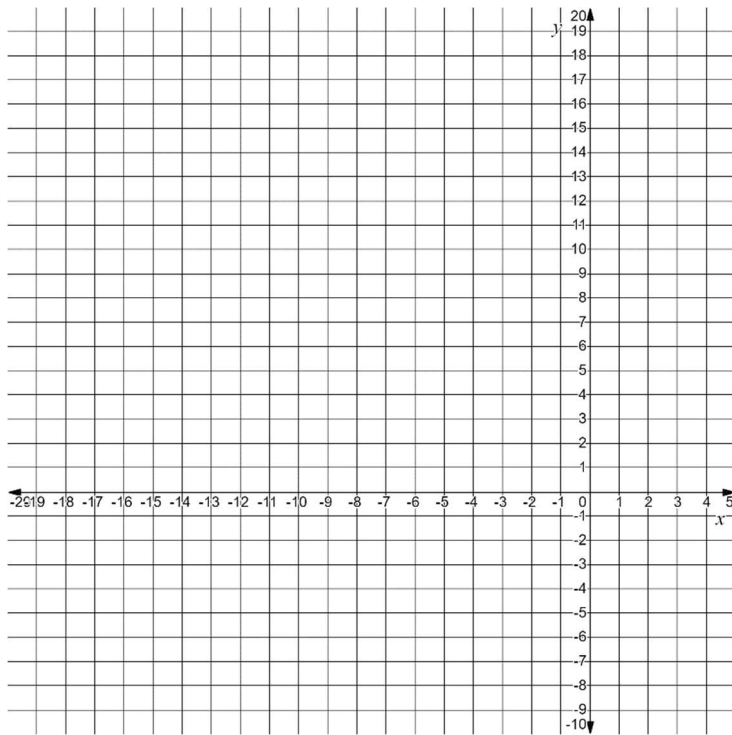
Axis of Symmetry

Vertex

Max/Min and value



Graph  $k(x) = -\frac{1}{4}x^2 - 3x + 7$  and find the  $x$  – intercept(s)



$y$  – intercept(s)

Domain

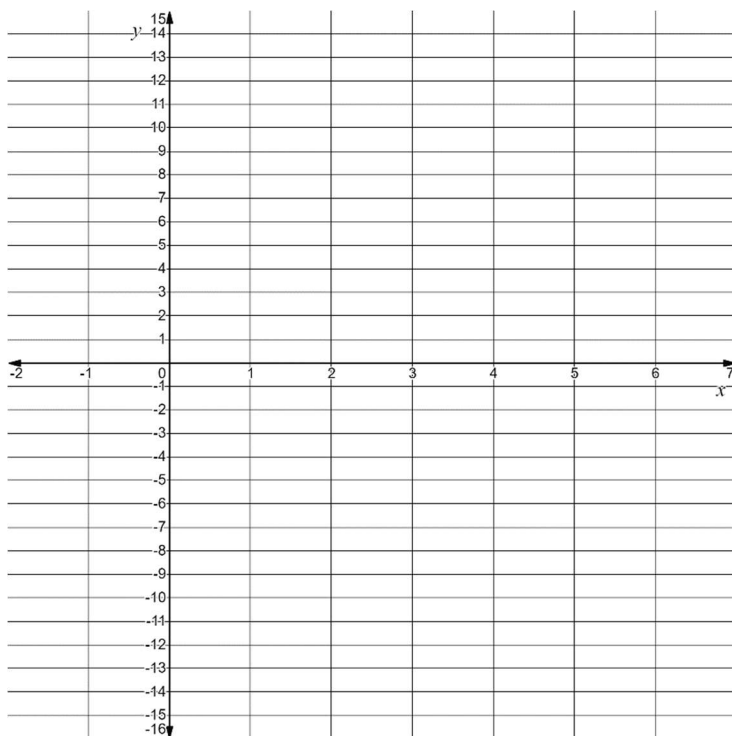
Range

Axis of Symmetry

Vertex

Max/Min and value

Graph  $m(x) = 2x^2 - 13x + 6$  and find the  $x$  – intercept(s)



$y$  – intercept(s)

Domain

Range

Axis of Symmetry

Vertex

Max/Min and value