Algebra 1

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Final Exam Review #2

Date Period

Determine if the sequence is arithmetic. If it is, find the common difference and the three terms in the sequence after the last one given.

1) 1, 4, 9, 16, ...

Determine if the sequence is geometric. If it is, find the common ratio.

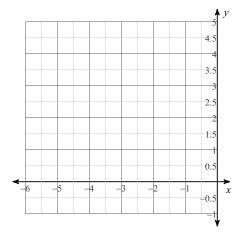
2) 68, 682, 6822, 68222, ...

Determine if the sequence is arithmetic. If it is, find the common difference and the three terms in the sequence after the last one given.

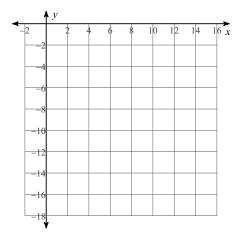
Determine if the sequence is geometric. If it is, find the common ratio and the 8th term.

Sketch the graph of each function. Give the transformation form from the parent graph $y = x^2$. Stretch or Shrink, Translated Left or Right, Up or Down.

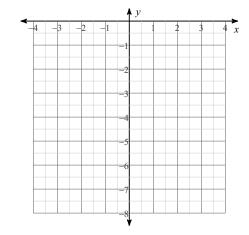
11)
$$y = -(x+3)^2 + 4$$



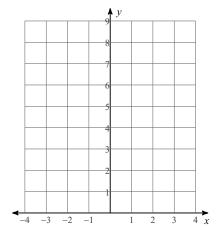
12)
$$y = -4(x-1)^2 - 1$$



13)
$$y = -(x+1)^2 - 3$$

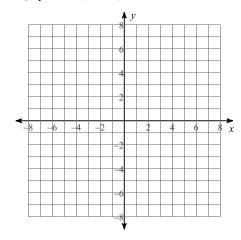


14)
$$y = (x+2)^2 + 4$$

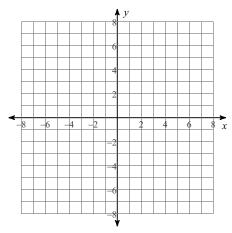


Identify the vertex, direction of opening, and min/max value of each. Then sketch the graph.

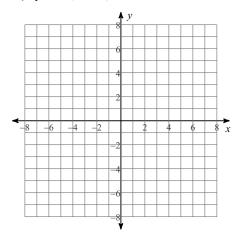
15)
$$y = -2(x+5)^2$$



17)
$$y = -(x-4)^2 + 3$$



16)
$$y = 2(x+4)^2 - 4$$



18)
$$y = -\frac{1}{2}(x+6)^2 + 5$$

