

Transformations of Exponential Functions

1. For each function, describe the transformations and graph.

a) $y = 2^{x+3} - 5$

b) $y = 3(2^x)$

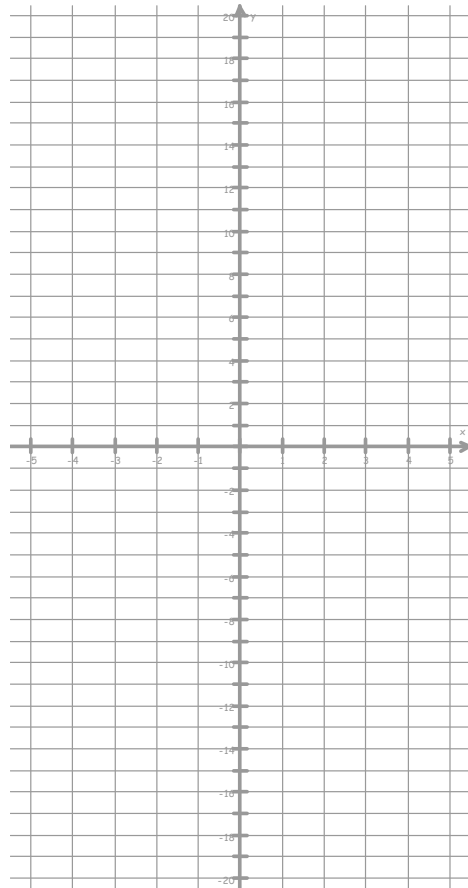
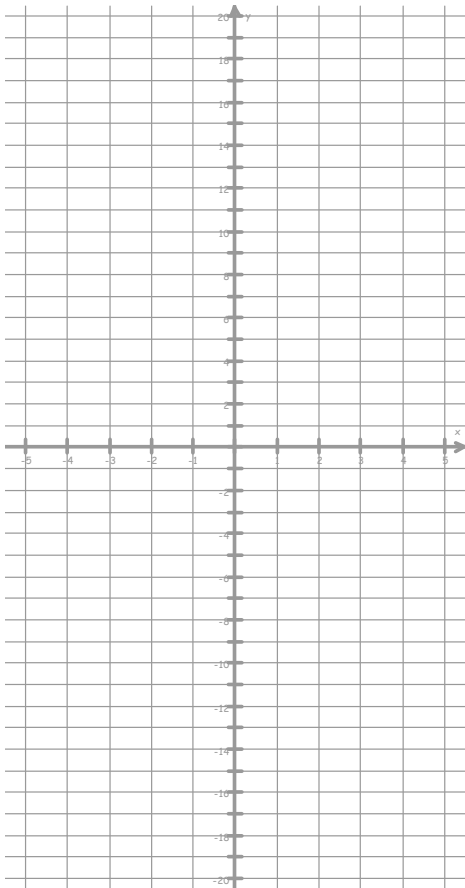
Base Function: _____

Transformations:

Transformation:

Locate points from new "origin":

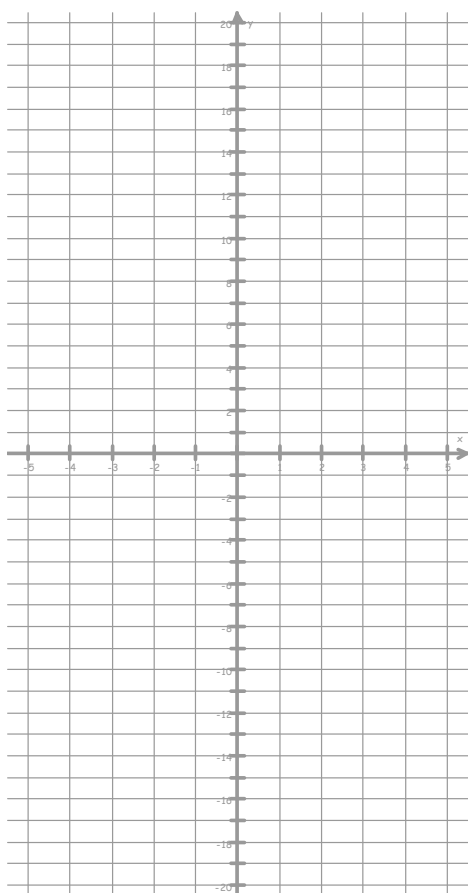
Locate points from new "origin":



c) $y = -2^x$

Transformation:

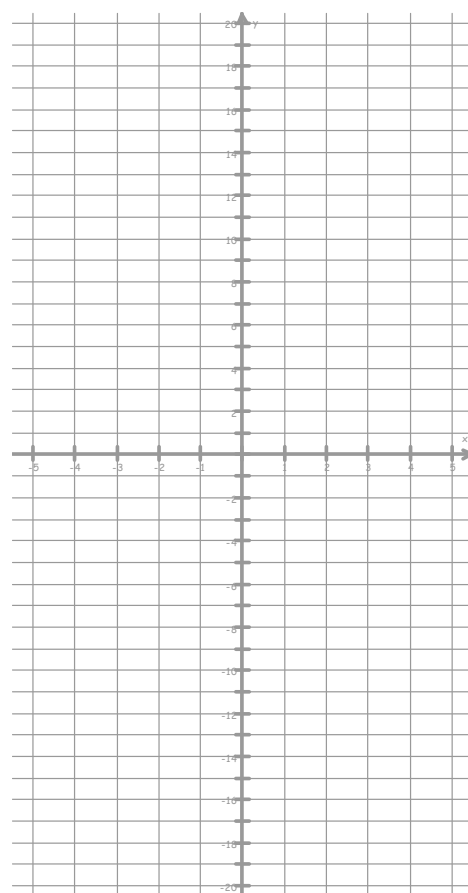
Locate points from new "origin":



d) $y = 2^{-2x}$

Transformations:

Locate points from new "origin":



2. For each function, describe the transformations, graph and state the domain and range.

a) $y = -2(3)^{x-2} + 4$

b) $y = 3(2)^{-x-1} - 6$

Base Function: _____

Base Function: _____

Transformations:

Transformations:

Locate points from new "origin":

Locate points from new "origin":

Domain: _____

Domain: _____

Range: _____

Range: _____

