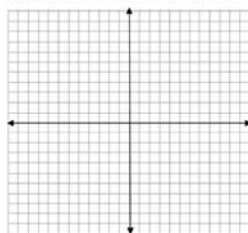


p.23

Graph the function on the coordinate plane and fill in all the information.



1. Graph: $f(x) = 2^x + 1$

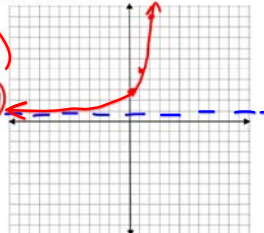
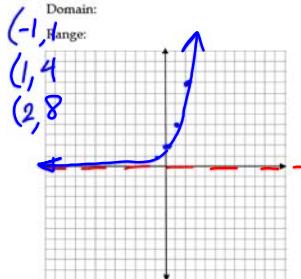
Transformations:

Horizontal asymptote:

y-intercept:

Domain:

Range:



2. Graph: $f(x) = 2 \cdot 2^x + 1$

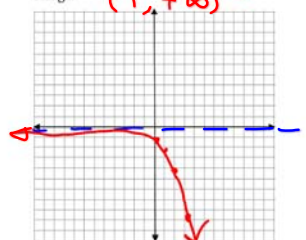
Transformations: stretch 2; up 1

Horizontal asymptote: $y=1$

y-intercept: (0, 3)

Domain: $(-\infty, +\infty)$

Range: $(1, +\infty)$



3. Graph: $f(x) = 2^{x+1}$

Transformations: left 1

Horizontal asymptote: $y=0$

y-intercept: (0, 2)

Domain: $(-\infty, +\infty)$

Range: $(0, +\infty)$

4. Graph: $f(x) = -2 \cdot 2^{x-1}$

Transformations: flip; stretch 2; right 1

Horizontal asymptote: $y=0$

y-intercept: (0, -1)

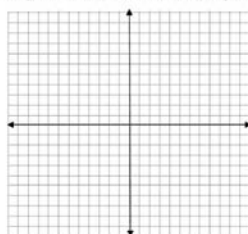
Domain: $(-\infty, +\infty)$

Range: $(-\infty, 0)$

Unit 8 Target 1 Practice

Name: _____

Graph the function on the coordinate plane and fill in all the information.



1. Graph: $f(x) = -2^x + 4$

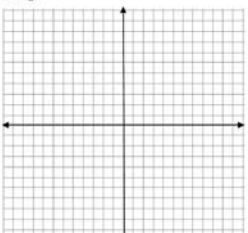
Transformations:

Horizontal asymptote:

y-intercept:

Domain:

Range:



3. Graph: $f(x) = 3^{x+1} + 3$

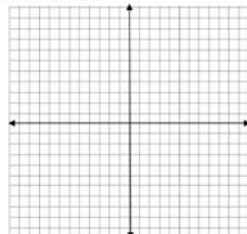
Transformations:

Horizontal asymptote:

y-intercept:

Domain:

Range:



2. Graph: $f(x) = 3 \cdot 2^x + 1$

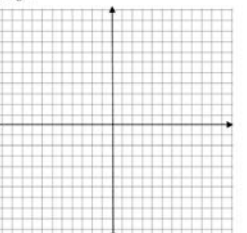
Transformations:

Horizontal asymptote:

y-intercept:

Domain:

Range:



4. Graph: $f(x) = -2 \cdot 3^{x-1} - 2$

Transformations:

Horizontal asymptote:

y-intercept:

Domain:

Range: