

Names: _____



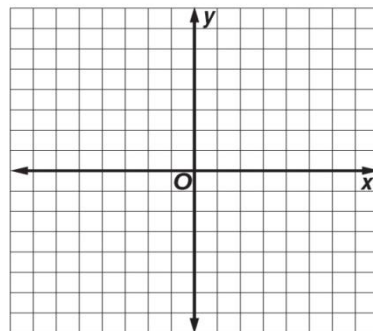
3.1 & 3.2 Practice



$$e^1 \approx 2.7, e^{-1} \approx .4$$

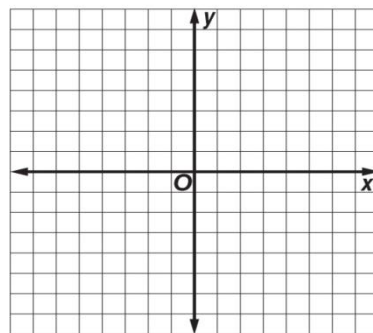
1) Without a calculator, sketch a graph of $f(x) = \frac{1}{2}e^{(x-3)} - 5$

x	y	x	y	x	y	x	y	x	y



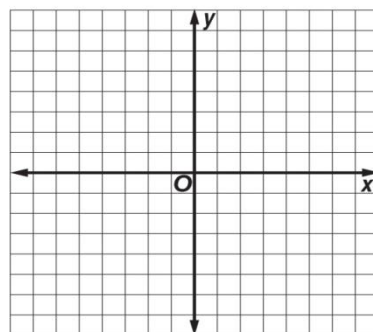
2) Without a calculator, sketch a graph of $f(x) = \frac{1}{4}^{(x+1)} - 2$

x	y	x	y	x	y	x	y	x	y



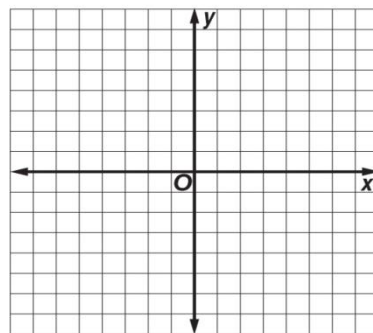
3) Without a calculator, sketch a graph of $f(x) = \log_4 x$

x	y	x	y	x	y	x	y	x	y



4) Without a calculator, sketch a graph of $f(x) = \ln(x - 1) + 3$

x	y	x	y	x	y	x	y	x	y



1) Determine the following:

Domain:

Asymptote Equation:

Any intercepts:

Range:

Increasing:

End Behavior:

Decreasing:

2) Determine the following:

Domain:

Asymptote Equation:

Any intercepts:

Range:

Increasing:

End Behavior:

Decreasing:

3) Determine the following:

Domain:

Asymptote Equation:

Any intercepts:

Range:

Increasing:

End Behavior:

Decreasing:

4) Determine the following:

Domain:

Asymptote Equation:

Any intercepts:

Range:

Increasing:

End Behavior:

Decreasing: