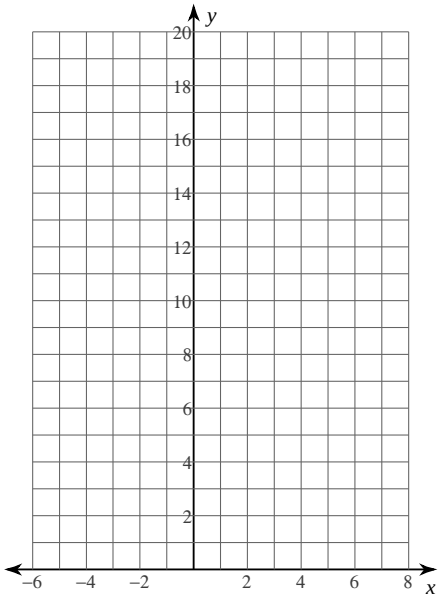
Unit 14 review Calculator Name_____

Assignment

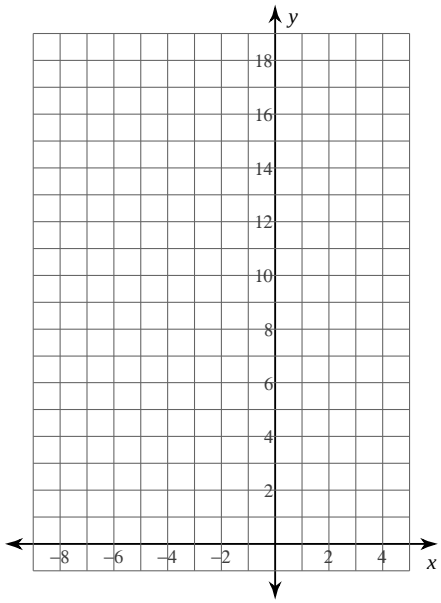
Date_____ Period____

14.1 I can graph exponential functions with technology

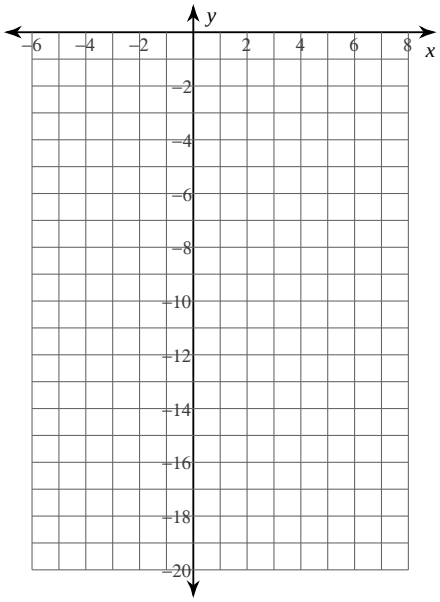
1) $y = 5 \cdot 2^{x-1} + 1$



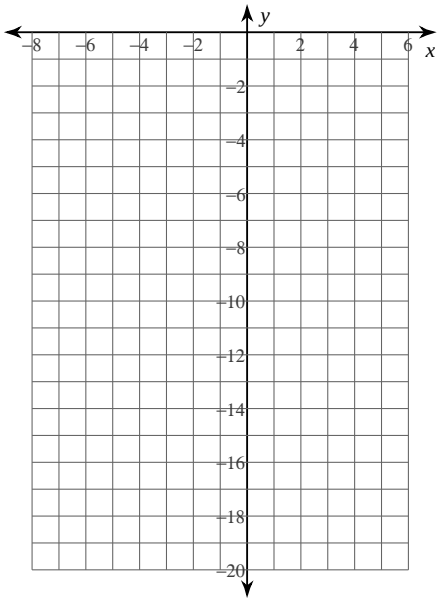
2) $y = 2 \cdot \left(\frac{1}{2}\right)^{x+2} - 1$



3) $y = -5 \cdot 2^{x-1} - 2$

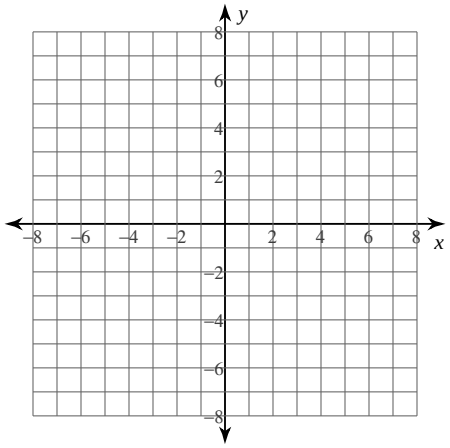


4) $y = -2 \cdot 2^{x+1} - 2$

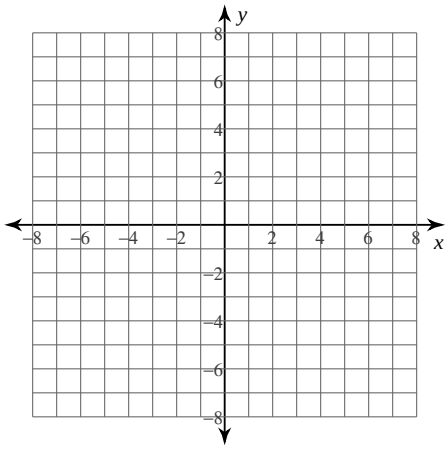


14.2 I can graph logarithmic functions with technology

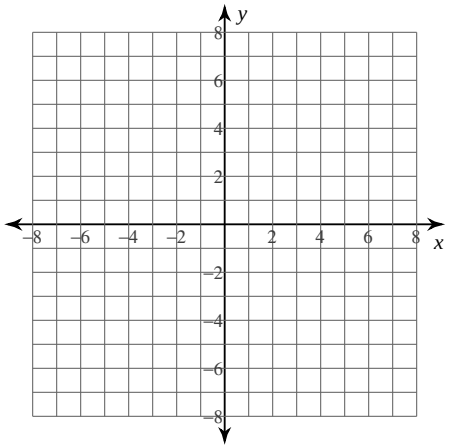
5) $y = \log_2 (4x + 10)$



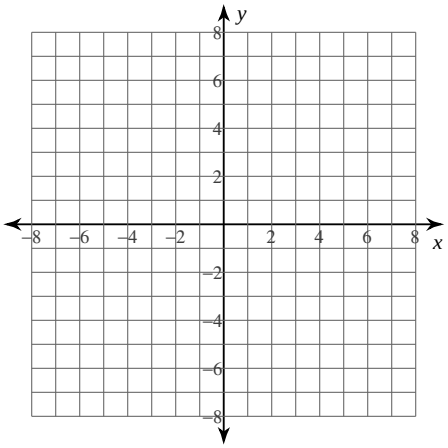
6) $y = \log (4x + 21) - 1$



7) $y = \log_2 (3x + 9) + 1$



8) $y = \log_3 (4x + 24) + 4$



14.5 I can apply the properties of logarithms

9) $\ln 11$

10) $\log_4 7$

11) $\log_6 58$

12) $\log_3 6.6$

13) $\log_3 1.7$

14) $\log_6 34$

15) $\log_2 29$

16) $\log_4 3.1$

14.6 I can solve logarithmic equations

17) $\log_2 10 - \log_2 (x - 10) = 2$

18) $\log x - \log (x - 5) = 1$

19) $\log_8 3x^2 - \log_8 7 = 2$

20) $\log_5 10 - \log_5 3x = 1$

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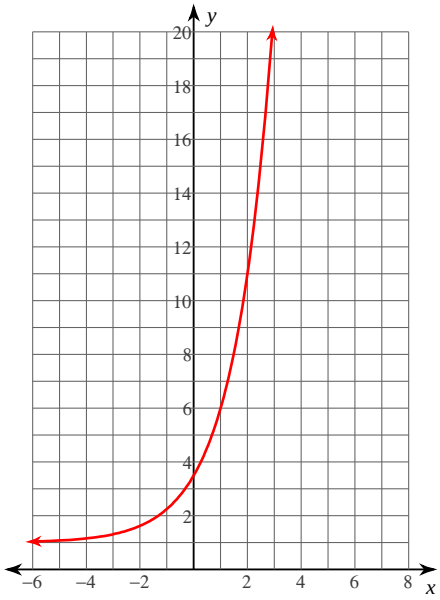
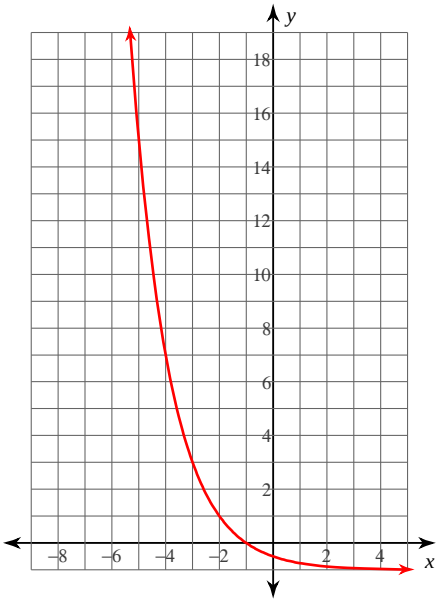
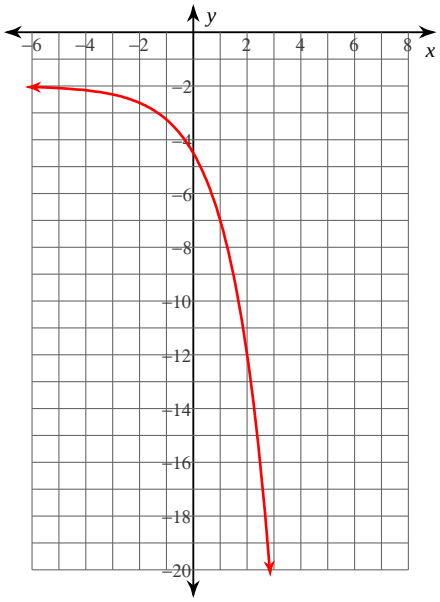
1) $y = 5 \cdot 2^{x-1} + 1$



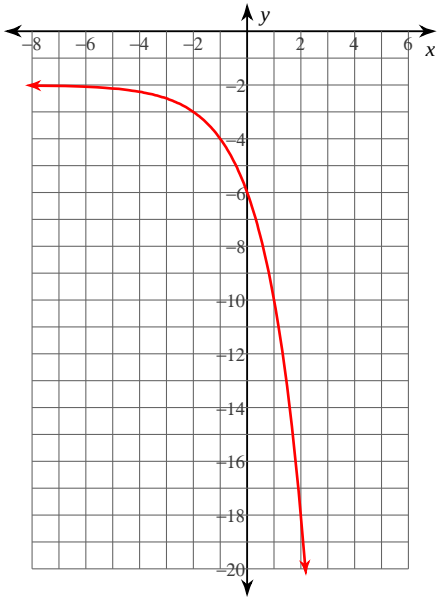
2) $y = 2 \cdot \left(\frac{1}{2}\right)^{x+2} - 1$



3) $y = -5 \cdot 2^{x-1} - 2$

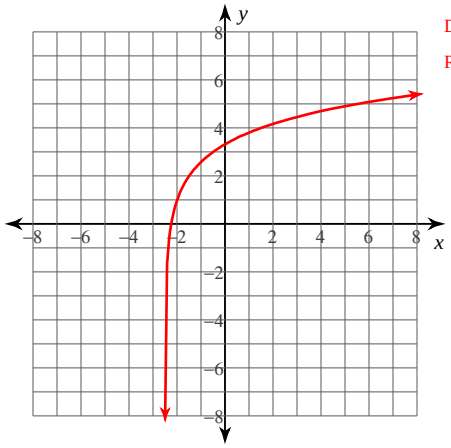


4) $y = -2 \cdot 2^{x+1} - 2$



14.2 I can graph logarithmic functions with technology

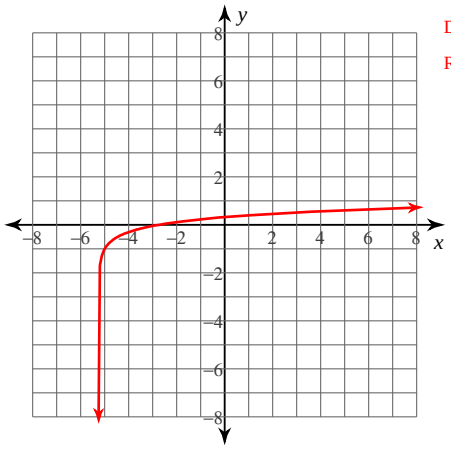
5) $y = \log_2 (4x + 10)$



Domain: $x > -\frac{5}{2}$

Range: All reals

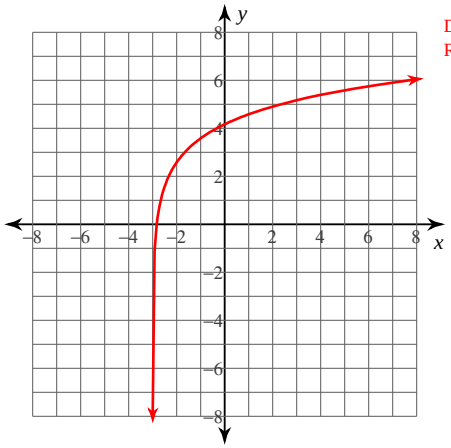
6) $y = \log (4x + 21) - 1$



Domain: $x > -\frac{21}{4}$

Range: All reals

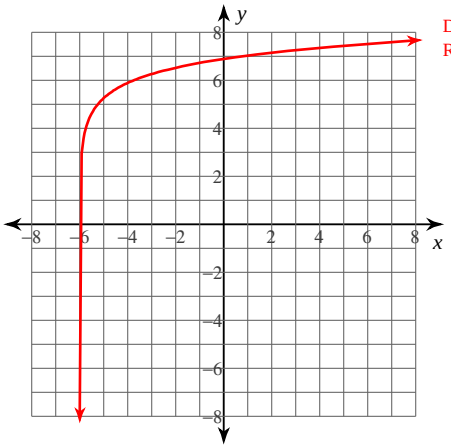
7) $y = \log_2 (3x + 9) + 1$



Domain: $x > -3$

Range: All reals

8) $y = \log_3 (4x + 24) + 4$



Domain: $x > -6$

Range: All reals

14.5 I can apply the properties of logarithms

9) $\ln 11$

2.398

10) $\log_4 7$

1.404

11) $\log_6 58$

2.266

12) $\log_3 6.6$

1.718

13) $\log_3 1.7$

0.483

14) $\log_6 34$

1.968

15) $\log_2 29$

4.858

16) $\log_4 3.1$

0.816

14.6 I can solve logarithmic equations

17) $\log_2 10 - \log_2 (x - 10) = 2$ $\left\{\frac{25}{2}\right\}$

18) $\log x - \log (x - 5) = 1$ $\left\{\frac{50}{9}\right\}$

19) $\log_8 3x^2 - \log_8 7 = 2$ $\left\{\frac{8\sqrt{21}}{3}, -\frac{8\sqrt{21}}{3}\right\}$

20) $\log_5 10 - \log_5 3x = 1$ $\left\{\frac{2}{3}\right\}$