

Assignment

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Solve each equation.

1) $3^{-2p} = 3^{2p-1}$

2) $4^{3x} = 64$

3) $4^{-n} = 16^{-3n}$

4) $25^{x+3} = 125^x$

5) $216^{3x} = 36^{2x-1}$

6) $81^{2v} = 243^{-3v-3}$

7) $\left(\frac{1}{4}\right)^{3x-3} = 16$

8) $9^{-n+3} = \frac{1}{243}$

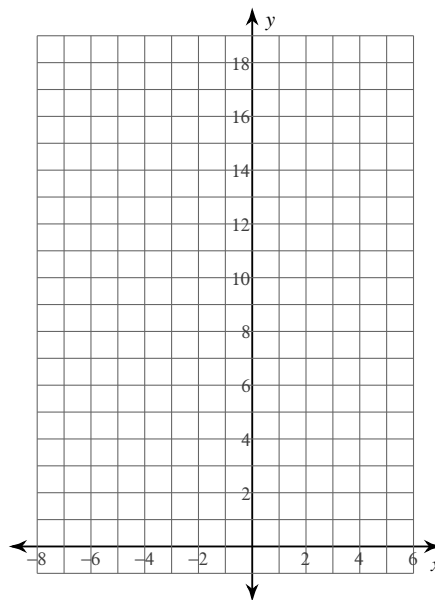
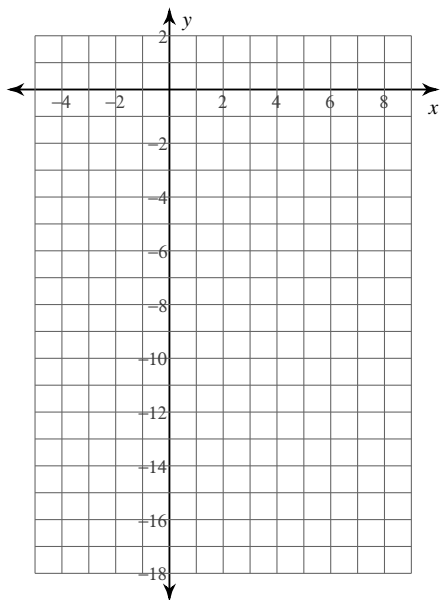
9) $125^x = \left(\frac{1}{625}\right)^{-3x}$

10) $36^{-2n} = 216$

Sketch the graph of each function.

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

12) $f(x) = \frac{1}{4} \cdot 7^{x+1} - 1$



Answers to Assignment (ID: 1)

1) $\left\{\frac{1}{4}\right\}$

2) $\{1\}$

3) $\{0\}$

4) $\{6\}$

5) $\left\{-\frac{2}{5}\right\}$

6) $\left\{-\frac{15}{23}\right\}$

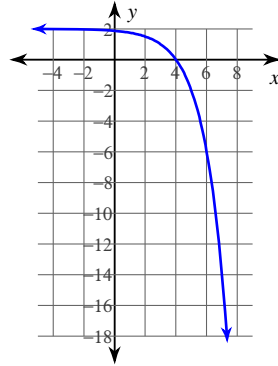
7) $\left\{\frac{1}{3}\right\}$

8) $\left\{\frac{11}{2}\right\}$

9) $\{0\}$

10) $\left\{-\frac{3}{4}\right\}$

11)



12)

