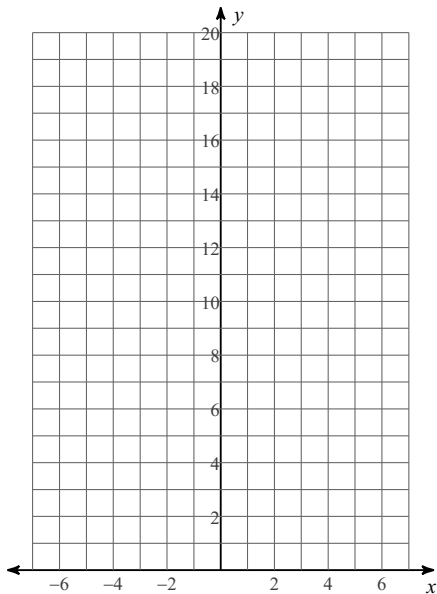


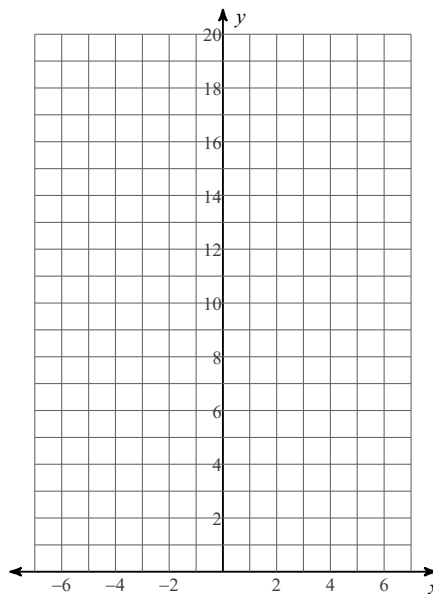
### 5.3 Graphing Exponentials using (0,a) (1, ab)

Sketch the graph of each function.

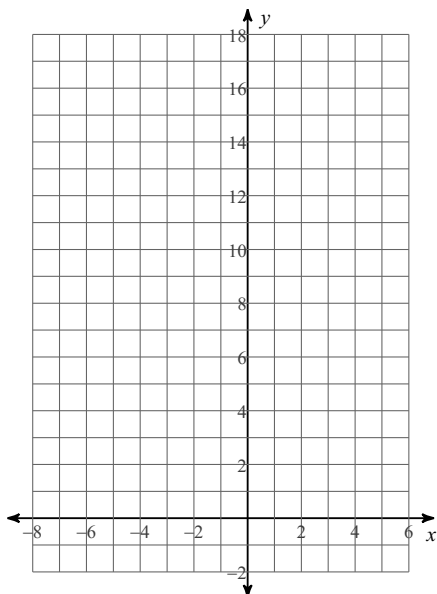
1)  $y = 4 \cdot 2^x$



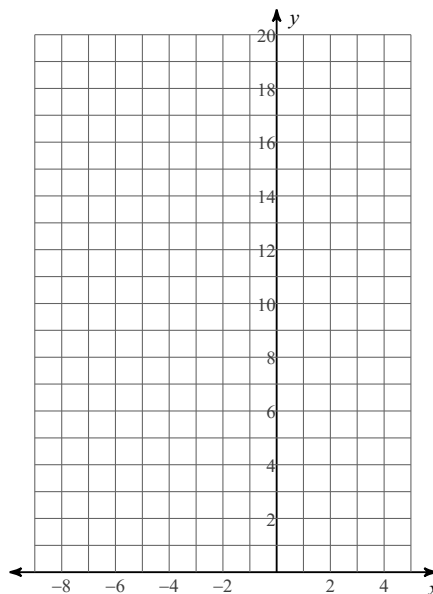
2)  $y = \frac{1}{4} \cdot \left(\frac{1}{3}\right)^x$



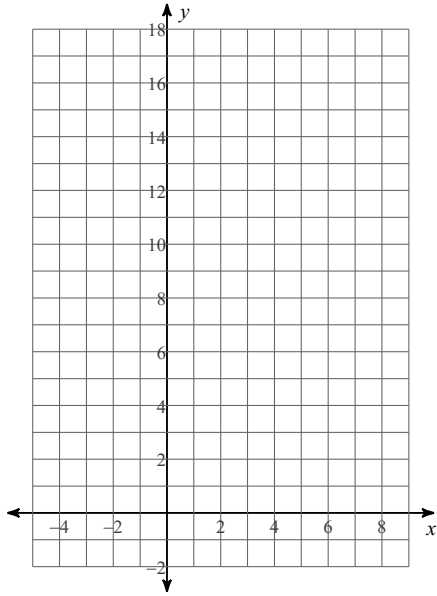
3)  $y = \frac{1}{3} \cdot \left(\frac{1}{3}\right)^{x+1} - 2$



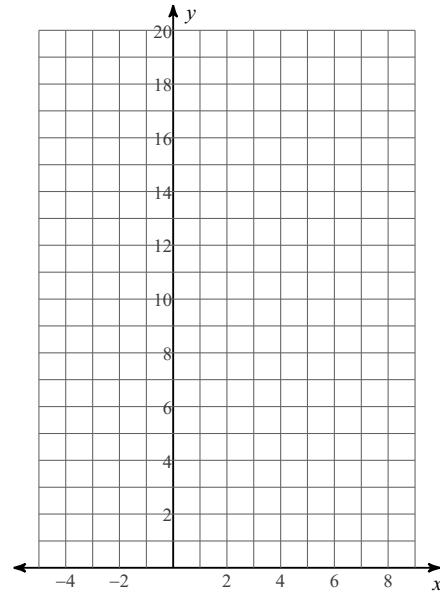
4)  $y = 5 \cdot \left(\frac{1}{2}\right)^{x+2} + 1$



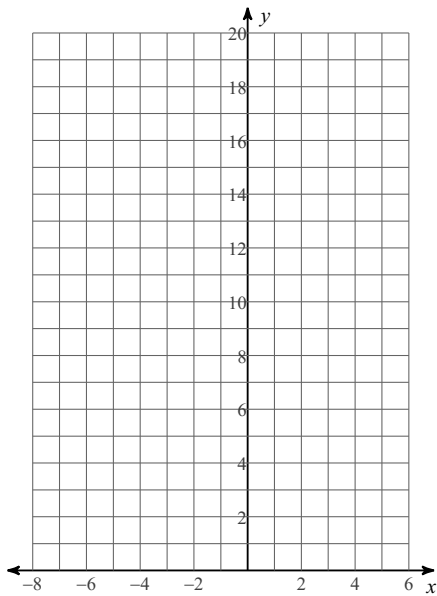
$$5) y = 3 \cdot \left(\frac{1}{2}\right)^{x-2} - 2$$



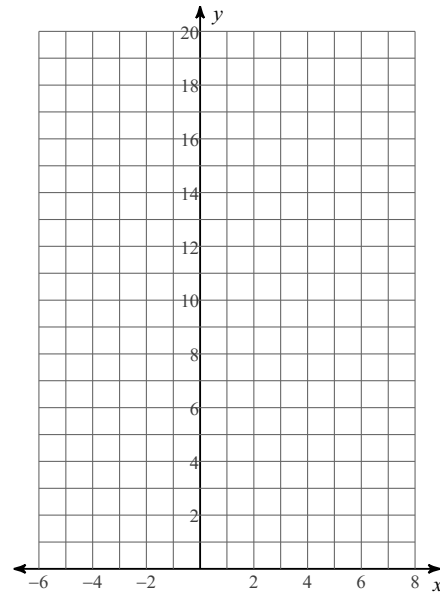
$$6) y = \frac{1}{4} \cdot 8^{x-2} + 1$$



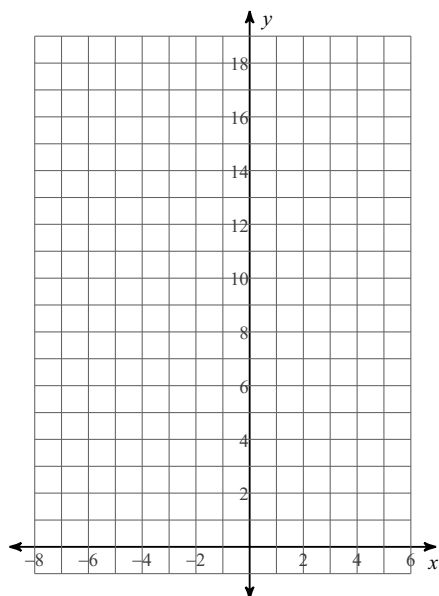
$$7) y = 4 \cdot \left(\frac{1}{2}\right)^{x+1} + 2$$



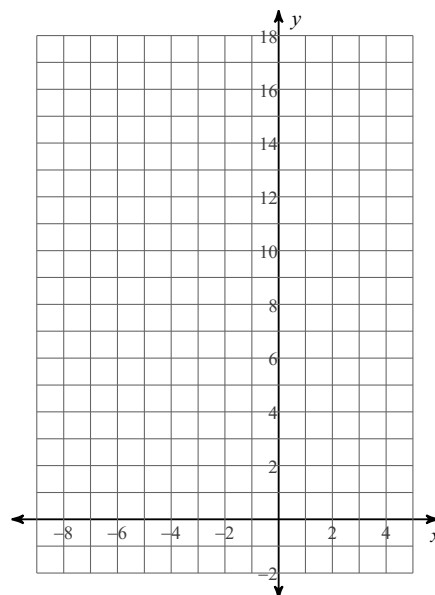
$$8) y = 5 \cdot 2^{x-1} + 1$$



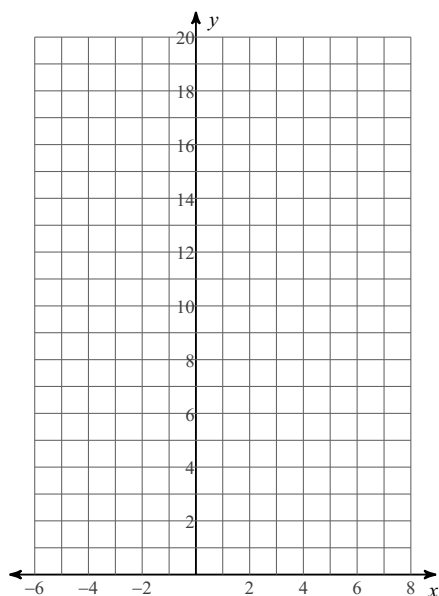
$$9) y = 2 \cdot \left(\frac{1}{2}\right)^{x+1} - 1$$



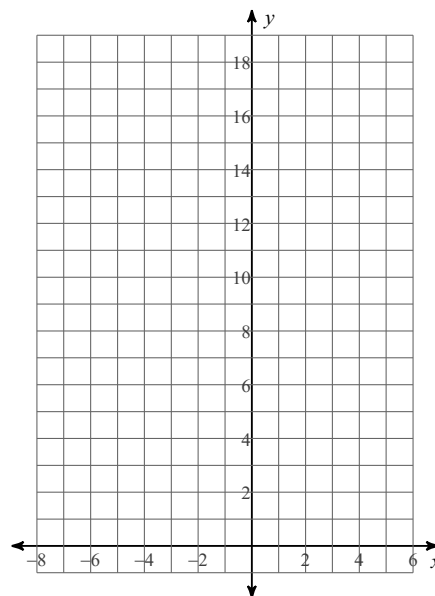
$$10) y = 3 \cdot 2^{x+2} - 2$$



$$11) y = 3 \cdot \left(\frac{1}{2}\right)^{x-1} + 2$$

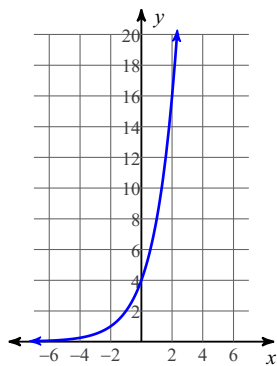


$$12) y = 3 \cdot 2^{x+1} - 1$$

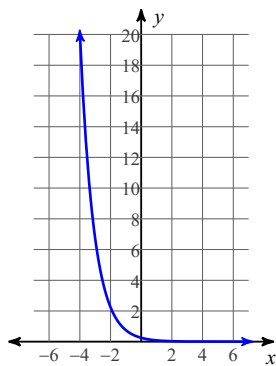


# Answers to 5.3 Graphing Exponentials using (0,a) (1, ab)

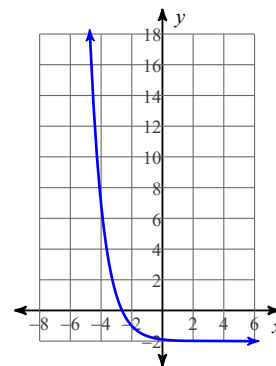
1)



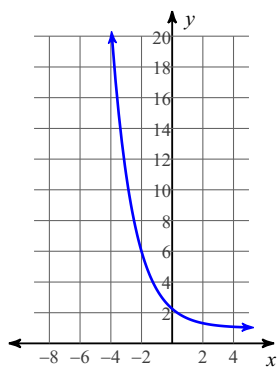
2)



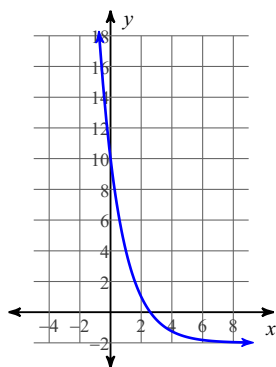
3)



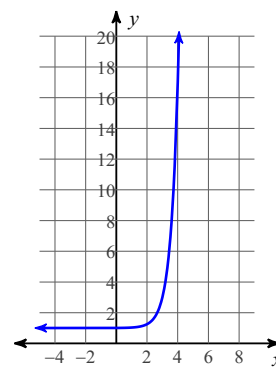
4)



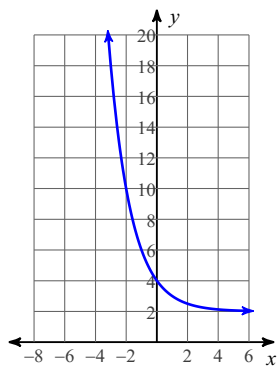
5)



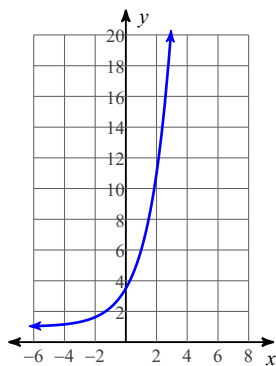
6)



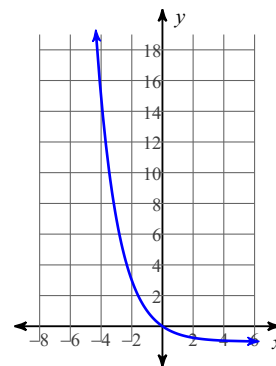
7)



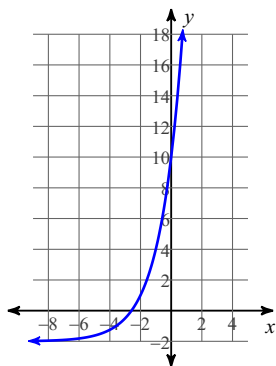
8)



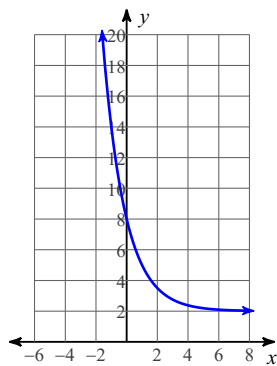
9)



10)



11)



12)

