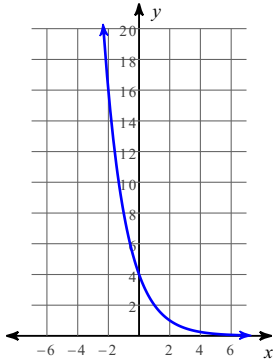


Answers to SEM2 Final Exam Review pt. 2

1)



5) $y = 2 \cdot 3^x$

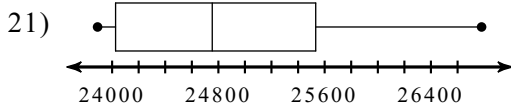
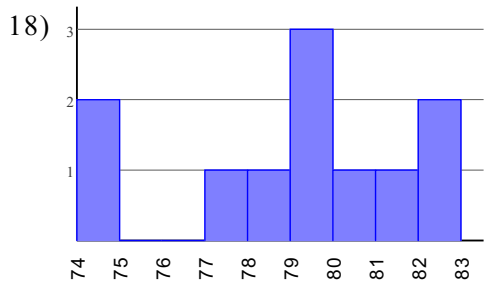
8) Mode = 7.5, Median = 7.25 and Mean = 7.15

10) Mode = 11, Median = 9 and Mean = 8.22

12) Mode = 3 and 6, Median = 5, Mean = 5.22, $Q_1 = 3$, $Q_3 = 6.5$ and IQR = 3.5

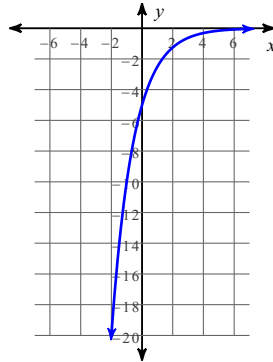
14) Mode = 13, Median = 12 and Mean = 12.78

16) Mode = 72 and 75, Median = 73 and Mean = 72.67



23) 30

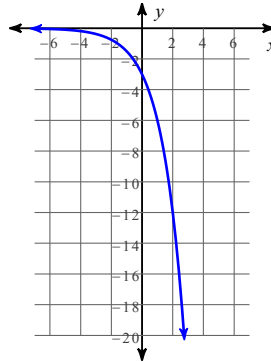
2)



6) $y = \frac{1}{3} \cdot 2^x$

11) Mode = 17, Median = 17, Mean = 16.55, $Q_1 = 14$, $Q_3 = 18$ and IQR = 4

3)

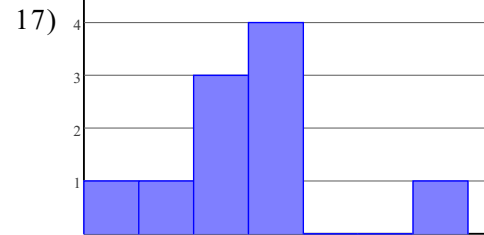


7) Mode = 2, Median = 5 and Mean = 4.45

9) Mode = 2, Median = 2 and Mean = 3.11

13) Mode = 47, Median = 36.5 and Mean = 35.5

15) Mode = 7, Median = 6 and Mean = 5.64

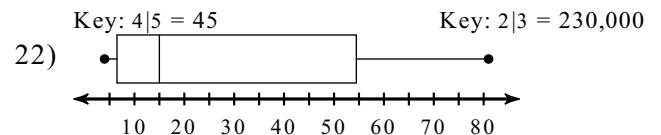


19)

Stem	Leaf
3	2 3 9
4	5 9 9
5	4 7 7
6	3 4

20)

Stem	Leaf
2	0 3 3 3 4
3	4
4	6 9
5	2 5



25) $\frac{16 - 30i}{17}$

26) $\frac{5 - 8i}{89}$

29) -1, 3, -9, 27, -81

27) Not geometric

28) $r = -5$

30) 4, -24, 144, -864, 5184

31) Common Ratio: $r = \frac{2}{3}$

32) Common Ratio: $r = 5$
 $a_8 = -46875$

$$a_8 = \frac{128}{729}$$