

# AFM Exam Review

185

1	$\log_5 125 = 3$
2	$2^{-3} = 1/8$
3	3
4	512
5	4
6	80
7	19, 14, 9, 4
8	13
9	9.9
10	2555
11	1292
12	-8
13	$\frac{24^3}{1024}$
14	-1536
15	$\frac{1}{24^3}$
16	518.3
17	$-122/91 = -1.34066$

Key

18	2										
19	$20/11 = 1.818$										
20	$\sin \theta = \frac{14}{21} = 2/3$ $\cos \theta = \frac{16}{21}$ $\tan \theta = \frac{14}{16} = 7/8$										
21	$B = 50^\circ$ $b = 19.07$ $c = 24.89$										
22	$7.2^\circ$										
23	$30^\circ$										
24	$150^\circ$										
25	$\frac{14}{45} = .7679$										
26	$-\sqrt{3}/2$										
27	20.19										
28	$y = -30 \cos \frac{\pi}{35}t + 35$										
29	Amplitude = 6 per = $\frac{\pi}{35}$ up 5    HS: $\frac{\pi}{4}$ rt										
30	mean = 70.79    stand dev = 12.78    median = 73										
	range = 43    IQR = 17										
	5 number summary: <table border="0"><tr><td>min</td><td>Q1</td><td>Med</td><td>Q3</td><td>max</td></tr><tr><td>47</td><td>61</td><td>73</td><td>78</td><td>90</td></tr></table>	min	Q1	Med	Q3	max	47	61	73	78	90
min	Q1	Med	Q3	max							
47	61	73	78	90							
	Outliers: None										

31	69pts
32	95%
33	19.2
34	50%
35	3024
36	8
37	56
38	59875200
39	479001600
40	53130
41	1359072
42	1/21
43	8/13
44	$12/77 = .1558$

45	$10/231 = .043$
46	$\frac{1}{36}$
47	$1/110 = .009$
48	$1/288 = .00347$
49	$7/1980 = .0035$
50	\$1267.39
51	\$13162.65
52	\$13280.47
53	\$158.54
54	$y = \ln(x-2) - 4$
55	$y = .2578x^{1.955}$ 6)18.94
56	$120(.62)^7 (.38)^3 \Rightarrow .23 = 23\%$
57	9.1 wolves
58	Range: $[1, 4) \cup (5, 19)$

