

Algebra II Homework #19 – Answer Key

1) $\frac{7i+9}{-9}$

2) li

3) $-231\sqrt{2}$

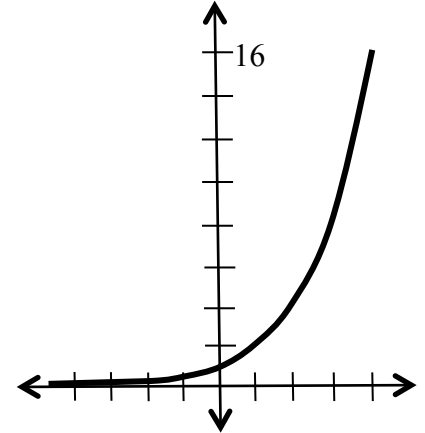
4) $x=5$

5) $76i-3$

6) See Table and Graph

7) $2\log_3 x + 5\log_3 y - 3\log_3 a$

x	y
0	1
1	2
2	4
3	8
4	16
-1	.5
-2	.25
-3	.125

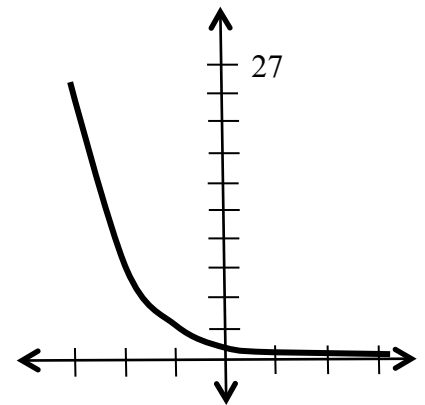


8) $\log_5\left(\frac{x^3 a^4}{y^7}\right)$

9) See Table and Graph

10) $5\log_4 x + \frac{1}{2}\log_4 y - 6\log_4 a$

x	y
0	1
1	.3333
2	.1111
3	.037
-1	3
-2	9
-3	27



11) $\log_2\left(\frac{\sqrt[3]{a^2}}{y^4 x^8}\right)$

12) See Table and Graph

13) $\frac{3}{5}\log_c a - 6\log_c x - 2\log_c y$

14) $\log_a 12$

15) See Table and Graph

16) $\frac{3}{5}\log_3 x + \frac{4}{5}\log_3 y - \log_3 a$

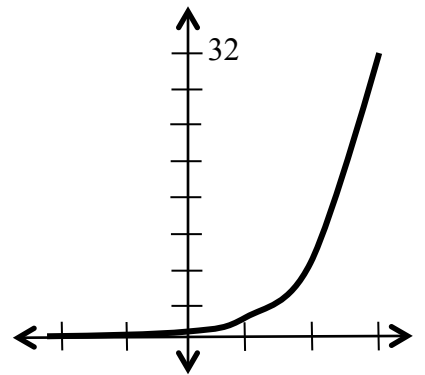
17) $\log_a 16$

18) See Table and Graph

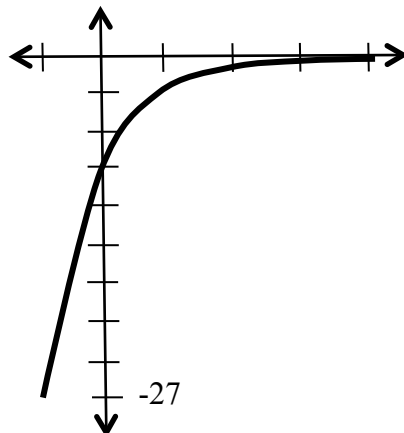
19) $5\log_4 x + 2\log_4 y + 3\log_4 a$

20) $\log_c\left(\frac{x^6}{y^3 a^5}\right)$

x	y
0	.5
1	2
2	8
3	32
-1	.125
-2	.031



x	y
0	-9
1	-3
2	-1
3	-.333
4	-.111
-1	-27



x	y
0	16
1	8
2	4
3	2
4	1
5	.5
6	.25
7	.125
8	.0625

