**Exponentials and Logs**

10 pts $\left(0,\infty \right)$

20 pts $20,870.14

30 pts 4

40 pts 2

50 pts -4.917

**Solving Systems of Equations**

10 pts (-3, 2)

20 pts (-4, -7) and (2, 5)

30 pts (1, -1, 2)

40 pts $\frac{2}{x-3}-\frac{1}{x+2}$

50 pts $\frac{6}{x}-\frac{1}{x+1}+\frac{9}{\left(x+1\right)^{2}}$

**Rational Functions**

10 pts x = -9

20 pts $y=-\frac{2}{3}$

30 pts $\left(-\infty ,\infty \right)$

40 pts $\left(-\infty ,4\right]∪(0,\infty )$

50 pts y = x – 2

**Conics**

10 pts (9, 0)

20 pts (9, -2) and (1, -2)

30 pts $\left(y+2\right)^{2}-\frac{\left(x-1\right)^{2}}{16}=1$

40 pts $\frac{\left(x-2\right)^{2}}{25}-\frac{\left(y+3\right)^{2}}{144}=1$

50 pts y = 1

**Equations**

10 pts $\pm \sqrt{2}, \pm 1$

20 pts 4, -1

30 pts $\pm \sqrt{3}, 3$

40 pts 5

50 pts $\left(-\infty ,5\right)∪[8, \infty )$