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**Приложение 1**

Карточка для учащегося.

1. $3^{x+2}+3^{x}=810$
2. $9^{x}+4^{x}=-2,5∙6^{x}$
3. $5^{x}-3^{x}=16$
4. $\left(\frac{1}{2}\right)^{5x-1}∙8^{x}=32$
5. $\left(\frac{1}{3}\right)^{x}=-\frac{3}{x}$
6. $3^{2x+5}-2^{2x+7}+3^{2x+4}-2^{2x+4}=0$
7. $64^{x}-8^{x}-56=0$
8. $5^{\left|x\right|}=\cos(x)$
9. $\left(\frac{1}{3}\right)^{x}=x+1$
10. $3^{x-4}=5^{2x}$
11. $\left(x-1\right)^{x^{2}-x-4}=\left(x-1\right)^{2}$
12. $4^{x}-\left(x-13\right)∙2^{x}-2x+22=0$
13. $\left(2\sqrt{3}-\sqrt{11}\right)^{x}+\left(2\sqrt{3}+\sqrt{11}\right)^{x}=2$