**Rovnice a nerovnice s absolutní hodnotou:**

1. $2\left|x^{2}+2x-5\right|=x-1$ $\frac{-5+\sqrt{113}}{4}$
2. $\left|x\right|-\left|x-1\right|=2$ $ ∅$
3. $\left|x+5\right|-\left|x-2\right|=\left|x\right|-x+7$ $\left⟨2,\left.\infty \right)\right.$
4. $\frac{\left|x+2\right|}{\left|x+3\right|}=7$ $-\frac{23}{8}, -\frac{19}{6}$
5. $\left|x^{2}-4\right|-\left|9-x^{2}\right|=5$ $\left(-\infty ,\left.-3\right⟩∪\left⟨3,\left.\infty \right)\right.\right.$
6. $\left|2x-8\right|<3x-12$ $\left(4\right.,\left.\infty \right)$
7. $\left|\frac{x+1}{x-1}\right|>3$ $\left(\frac{1}{2},1\right)∪\left(1,2\right)$
8. $x^{2}-\left|x\right|-2\geq 0$ $\left(-\infty ,\left.-2\right⟩∪\left⟨2,\left.\infty \right)\right.\right.$
9. $\left|x^{2}-3x\right|+x-2<0$ $\left(1-\sqrt{3},2-\sqrt{2}\right)$
10. $\left|\frac{x^{2}-5x+4}{x^{2}-4}\right|\leq 1$ $\left〈0,\frac{8}{5}\right〉∪\left⟨\frac{5}{2},\left.\infty \right)\right.$