## MATH 220 — PRACTICE SOLVING EQUATIONS AND INEQUALITIES

You will need to be able to solve a variety of equations and inequalities to arrive at a function's roots, to find where curves intersect, and to investigate many features of curves that calculus reveals. Here is some practice.
$x^{2 / 3}=25$
$8 q^{1 / 2}-4=0$
$\sqrt{100-p^{2}}=p$
$|2 x+11|=19$
$|x+9|<16$
$4|x-9| \geq 20$

$$
2 x^{2}+13 x-7=0
$$

$$
2 x^{2}+13 x-7 \leq 0
$$

$$
\frac{x^{2}-5 x+4}{x^{2}-1}=0
$$

$$
\frac{x^{2}-5 x+4}{x^{2}-1}>0
$$

$\sqrt{p+1}=p-5$

$$
\sqrt{6 p+10}=2+p
$$

$$
x^{3}-2 x^{2}-3 x=0
$$

$$
\frac{1}{t}=5+\frac{1}{t^{2}+t}
$$

