Name
3.3 Find the product ( 5 pts )
18. $[x-(3-\sqrt{5})][x-(3+\sqrt{5})]$

1. 3.3 Find a polynomial with real coefficients that has the given zero. (5 pts) Leave it in factored form: 28. $4+i$
2. 3.3 Use the Rational Zeros Theorem (3 pts) and Descartes’s Rule of Signs (3 pts) to to find all real and imaginary roots of the equation. Final answer: (4 pts).
3. $6 x^{3}+25 x^{2}-24 x+5=0$
4. 3.4 Find all real solutions to the equation. ( 5 pts ) Check your answers.
5. $\sqrt{x-1}=x-7$
6. 3.6 Solve the inequalities: (5 pts each)
7. $\frac{x-4}{x+2} \leq 0$
8. $\frac{q-2}{q+3}<2$
