

Algebra 2 – U2.4 Worksheet

Name: _____ Hour: _____

Solve the following equations. Once again your worksheet is divided by problem type. I would recommend you save one problem from each type to do on the QA day, and do the rest of the problems before you show up to class that day.

Several of these problems will have ugly solutions, but that is totally fine. Don't try to convert to decimals or round.

1. $3\left(\frac{5x+1}{2}\right) + 10 = 22$

2. $16 = -3 + 13\left(\frac{6}{x+1}\right)$

3. $\frac{7}{2}(5x + 4)^3 - 8 = 6$

4. $5 = -7 + \frac{4}{3}(-6 + x)^2$

5. $-8 = -14 + 6\sqrt[3]{2x - 7}$

6. $\frac{4}{\sqrt{3x+1}} + 9 = 17$

7. $-1 + \frac{3}{2}(5)^{2x} = 5$

8. $-8 = -16 + 4(3)^{x-2}$

9. $\frac{4}{5}\ln(3x + 5) - 7 = 5$

10. $-6 + \frac{10}{\log_3 x} = -1$