

**Topic: Polynomials****Solving Polynomials Review**

4	In addition a 3.0, demonstrate in-depth inferences & applications that go beyond the learning goal.
3	<input checked="" type="checkbox"/> Solve quadratic equations in one variable by factoring <input type="checkbox"/> Determine if a given binomial is a factor of a polynomial; if so, completely factor the polynomial (#4)
2	<input type="checkbox"/> <i>Recognize or recall specific vocabulary such as: monic, roots, end behavior</i> <input checked="" type="checkbox"/> Factoring – showing expressions in different representations <ul style="list-style-type: none"> <li>▪ Non-monic</li> <li>▪ Factor by grouping</li> </ul> <input type="checkbox"/> Find the remainder using <ul style="list-style-type: none"> <li>▪ The Remainder Theorem (#1)</li> <li>▪ Divide polynomials (#1, 2)</li> </ul>
1	Student performance reflects insufficient progress towards foundational skills and knowledge.

**Factor and solve each polynomial, if possible.**

1.  $2x^2 - 10x$

2.  $x^3 - 3x^2$

3.  $13x^2 - 169x$

8.  $18x^2 - 2$

4.  $-15x + 15x^3$

9.  $4n^2 - 49$

5.  $23x^4 - 92x^2$

10.  $72k^2 - 2$

6.  $4x^3 - 8x^2 + 4x^4$

11.  $9x^2 - 16y^2$

7.  $3x^3 - 3x^2 + 6x$

12.  $36x^4 - 25x^2$

13.  $b^2 + 8b + 7$

22.  $5x^2 + 13x + 6$

14.  $n^2 - 11n + 10$

23.  $2x^2 + 5x + 3$

15.  $3n^3 - 15n^2 + 18n$

24.  $5x^2 + 29x - 6$

16.  $4n^3 + 24n^2 + 32n$

25.  $14x^2 + 18x + 4$

17.  $2a^2 - 2a - 180$

26.  $15x^2 - 50x + 15$

18.  $p^2 + 11p + 10$

27.  $8x^3 - 64x^2 + x - 8$

19.  $2x^2 + 5x + 2$

28.  $6x^3 - 16x^2 + 21x - 56$

20.  $7x^2 - 29x + 4$

29.  $96x^3 - 84x^2 + 112x - 98$

21.  $10x^2 - 7x - 3$

30.  $28x^3 + 16x^2 - 21x - 12$