

NAME: \_\_\_\_\_

*P.I. A2.A.26: Find the solution to polynomial equations of higher degree that can be solved using factoring and/or the quadratic formula*

Solve:

1.  $x^3 - 2x^2 - 24x = 0$

2.  $x^3 + 4x^2 - 21x = 0$

3.  $x^3 - 2x^2 - 15x = 0$

4.  $x^3 - 2x^2 - 35x = 0$

5.  $x^3 - 2x^2 - 8x = 0$

6.  $x^3 - 36x = 0$

7.  $x^3 + x^2 - 12x = 0$

8.  $x^3 + 2x^2 - 35x = 0$

9.  $x^3 - 4x^2 - 21x = 0$

10.  $x^3 + x^2 - 20x = 0$

11.  $x^3 - 4x^2 - 12x = 0$

12.  $x^3 + 3x^2 - 18x = 0$

13.  $x^3 - x^2 - 20x = 0$

14.  $x^3 - 49x = 0$

15.  $x^3 - x^2 - 12x = 0$

16.  $x^3 - x^2 - 30x = 0$

17.  $x^3 - x^2 - 6x = 0$

18.  $x^3 + x^2 - 30x = 0$

19.  $x^3 - 3x^2 - 28x = 0$

20.  $x^3 + 3x^2 - 28x = 0$

- [1]  $-4, 0, 6$  \_\_\_\_\_
- [2]  $-7, 0, 3$  \_\_\_\_\_
- [3]  $-3, 0, 5$  \_\_\_\_\_
- [4]  $-5, 0, 7$  \_\_\_\_\_
- [5]  $-2, 0, 4$  \_\_\_\_\_
- [6]  $-6, 0, 6$  \_\_\_\_\_
- [7]  $-4, 0, 3$  \_\_\_\_\_
- [8]  $-7, 0, 5$  \_\_\_\_\_
- [9]  $-3, 0, 7$  \_\_\_\_\_
- [10]  $-5, 0, 4$  \_\_\_\_\_
- [11]  $-2, 0, 6$  \_\_\_\_\_
- [12]  $-6, 0, 3$  \_\_\_\_\_
- [13]  $-4, 0, 5$  \_\_\_\_\_
- [14]  $-7, 0, 7$  \_\_\_\_\_
- [15]  $-3, 0, 4$  \_\_\_\_\_
- [16]  $-5, 0, 6$  \_\_\_\_\_
- [17]  $-2, 0, 3$  \_\_\_\_\_
- [18]  $-6, 0, 5$  \_\_\_\_\_
- [19]  $-4, 0, 7$  \_\_\_\_\_
- [20]  $-7, 0, 4$  \_\_\_\_\_