

Name \_\_\_\_\_  
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Date \_\_\_\_\_  
Algebra II

## *Factors and Zeros*

**State the zeros for the following polynomials**

1.  $p(x) = (x+2)(x-4)(x+1)$

2.  $p(x) = (x-6)(x+3)(x-8)$

3.  $p(x) = x(x-6)(x+3)$

4.  $p(x) = -2x(x-7)(x+10)(x-3)$

5.  $p(x) = k(x+a)(x-b)(x+c)$

6.  $p(x) = x(x-n)(x+m)(x-k)$

7.  $p(x) = -2x(x-j)(x-k)(x+n)$

8.  $p(x) = -a(x+b)(x+c)(x-d)$

**Write a possible polynomial equation in factored form if the zeros are:**

9.  $\{-4, -2, 3\}$

10.  $\{6, -7, -2\}$

11.  $\{0, 1, -2, 4\}$

12.  $\{0, \pm 4, 7\}$

13.  $\{-7, 8, 3, \pm 5\}$

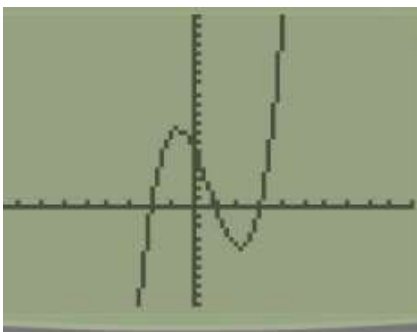
14.  $\{0, a, b, -c\}$

15.  $\{j, -k, l, -n\}$

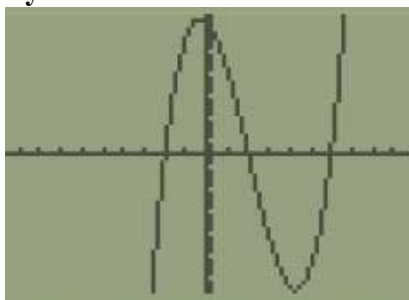
16.  $\{0, \pm a, b, \pm c\}$

Write a possible equation for each of the following polynomials

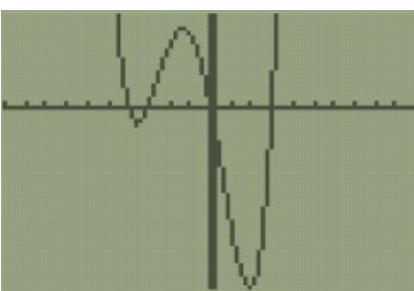
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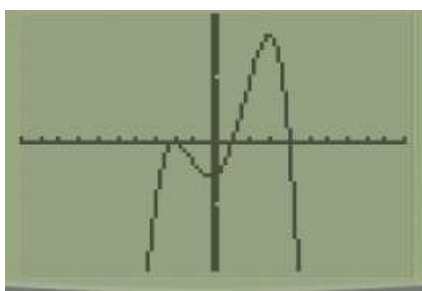
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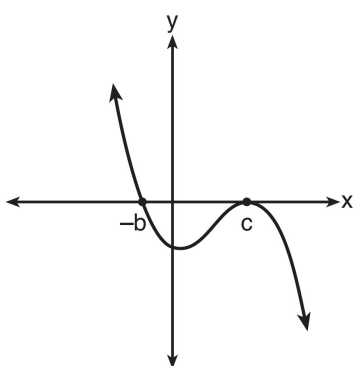
19.



20.



21.



22.

