

# Math 3

## Unit 3 Day 2 CW

For each of the following, use the leading coefficient test, end behavior, and zeros to match each function to its graph.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1.  $f(x) = x^3 - 3x^2$

2.  $f(x) = x$

3.  $f(x) = -3(x-1)(x-2)^2(x-3)$

4.  $f(x) = 9 - 4x^2$

5.  $f(x) = x^2(x-3)^3$

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

7.  $f(x) = (x-1)(x-3)(x-5)$

8.  $f(x) = -2x^2 + 16x - 24$

9.  $f(x) = -(x-4)(x-3)(x-1)^2$

10.  $f(x) = x^4 - 3x^3$

11.  $f(x) = -2(x+3)^2(x+1)^2$

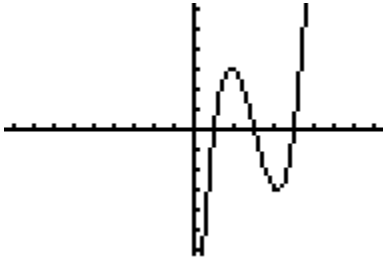
12.  $f(x) = -x^3 + 9x$

13.  $f(x) = 3x^4 - 3x^3 - 3x^2 + 3x$

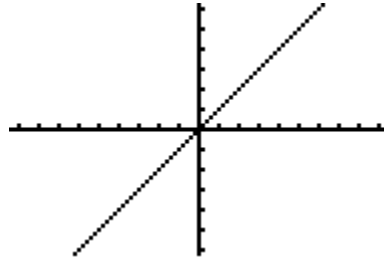
14.  $f(x) = -5$

15.  $f(x) = x^4 - 6x^3 + 8x^2$

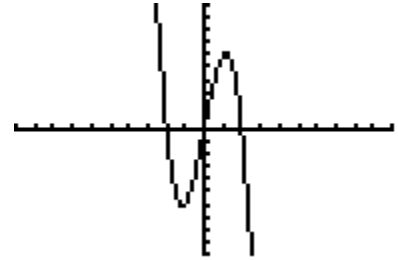
A.



B.



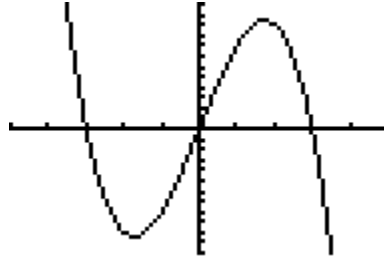
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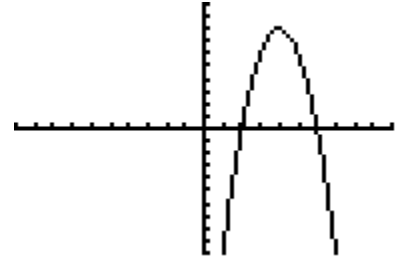
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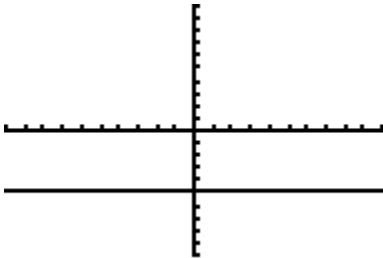
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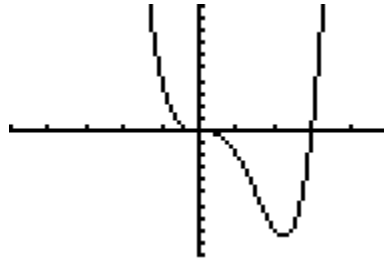
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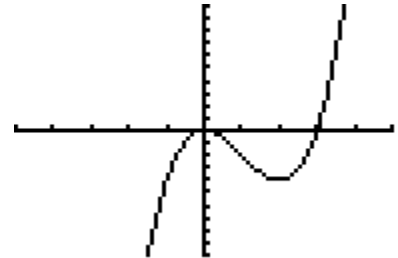
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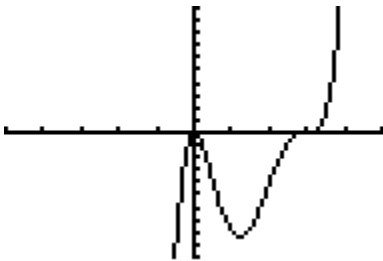
H.



I.



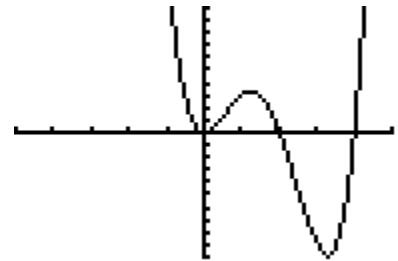
J.



K.



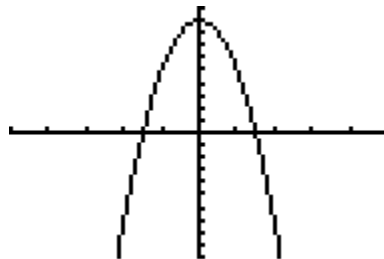
L.



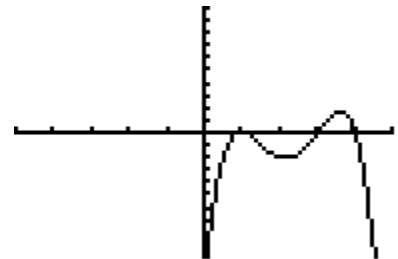
M.



N.



O.



<p>1. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>2. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>3. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>
<p>4. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>5. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>6. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>
<p>7. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>8. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>9. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>
<p>10. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>11. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>12. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>
<p>13. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>14. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>	<p>15. Matching Graph: _____ Zeros: _____ End Behavior: _____ _____</p>