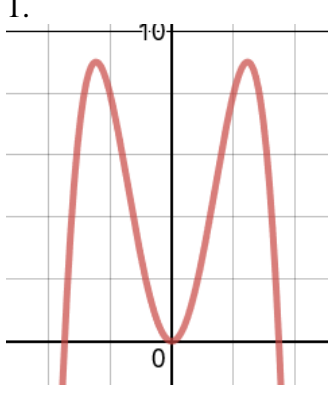
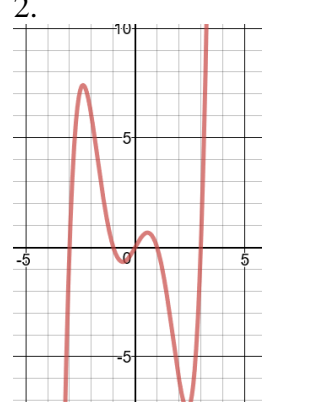
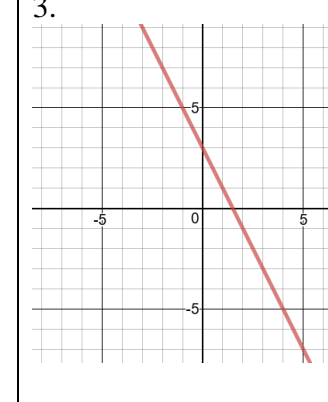
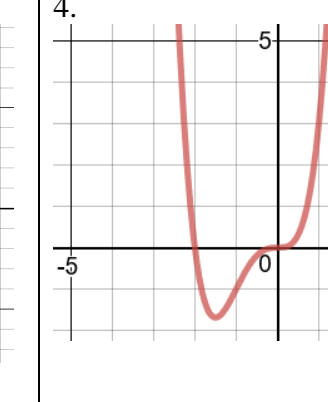
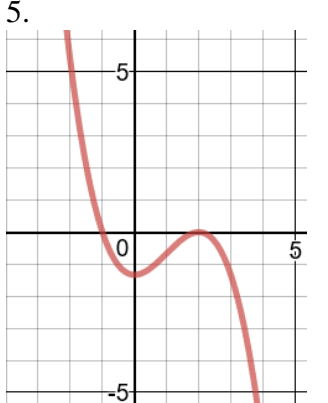
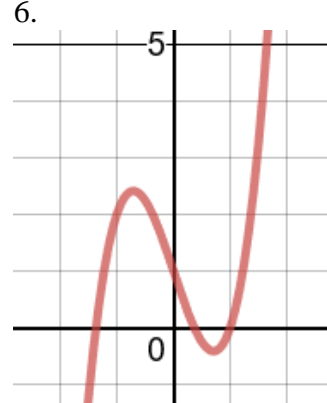
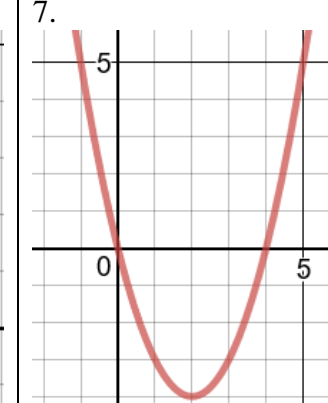
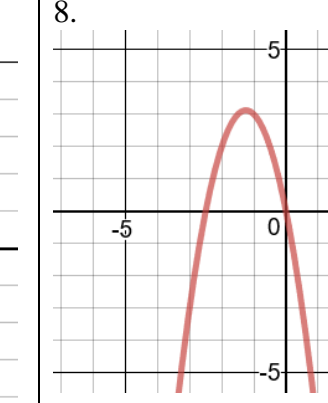


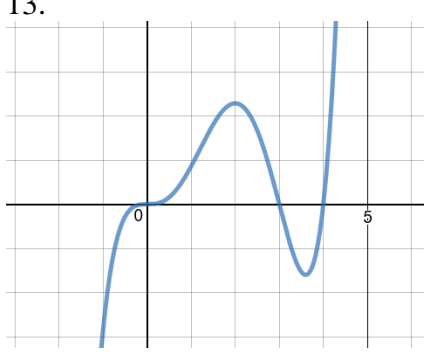
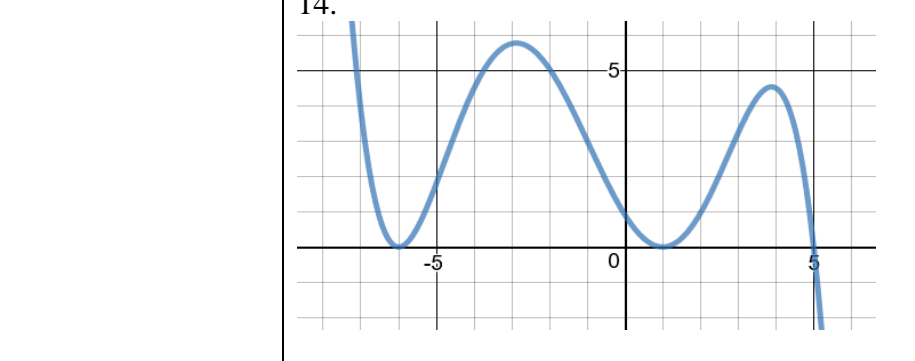
Match each function with its graph.

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 	<p>4.</p> 
<p>5.</p> 	<p>6.</p> 	<p>7.</p> 	<p>8.</p> 
<p>A. $f(x) = -2x + 3$</p>	<p>B. $f(x) = x^2 - 4x$</p>	<p>C. $f(x) = -2x^2 - 5x$</p>	<p>D. $f(x) = 2x^3 - 3x + 1$</p>
<p>E. $f(x) = -\frac{1}{4}x^4 + 3x^2$</p>	<p>F. $f(x) = -\frac{1}{3}x^3 + x^2 - \frac{4}{3}$</p>	<p>G. $f(x) = x^4 + 2x^3$</p>	<p>H. $f(x) = \frac{1}{5}x^5 - 2x^3 + \frac{9}{5}x$</p>

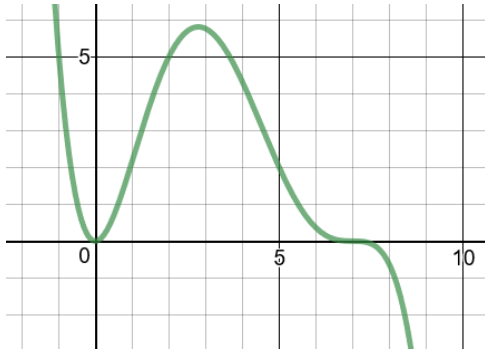
Write a polynomial in factored form that has the given zeros and degree if stated.

<p>9. $x = 2, 6, 6$</p>	<p>10. $x = -2, -1, 0, 1, 2$</p>
<p>11. $x = -2, 4, 7$ degree 4</p>	<p>12. $x = -5, 1, 2$ degree 5</p>

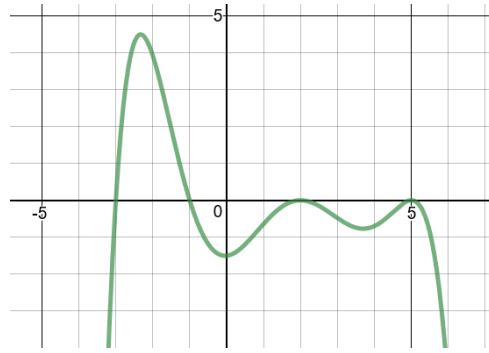
Write an equation of each graph in factored form. State the degree and sign of the LCE.

<p>13.</p> 	<p>14.</p> 
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15.



16.



State the degree and end behavior of each polynomial, find the zeros and multiplicities, then sketch the graph.

17. $f(x) = x^3 - 8x^2 + 16x$

18. $f(x) = x^3 + 3x^2 - 4x - 12$

19. $f(x) = x^5 - 5x^3 + 4x$

20. $f(x) = -\frac{1}{4}(x-2)^2(x+2)^2$

21. $f(x) = -48x^2 + 3x^4$

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