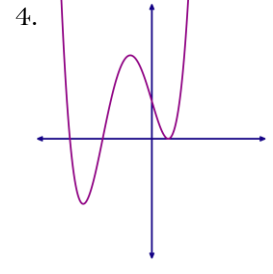
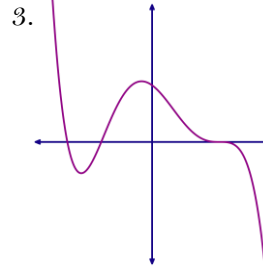
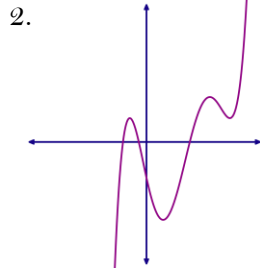
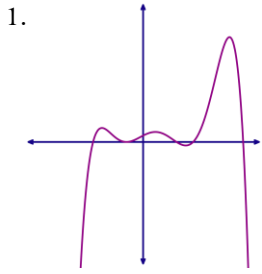


For each polynomial identify the degree (even or odd) and the leading coefficient (positive or negative).



For each polynomial, identify the degree and the leading coefficient. Then, sketch the end behavior.

5. $a(x) = -3x^3 + 2x + 6x^4 - 5$

6. $b(x) = -7x^5 - 2x^2 + 12x^4 + 52x$

7. $c(x) = -4 + 7.5x - 8x^2$

8. $d(x) = \frac{5}{2}(3x-1)^3(x-2)^2(x+1)^2$

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

10. $g(x) = -3(x-4)^2(x+1)(2x+5)$

Write the equation of the cubic function in factored form.

11. $f(x)$ has roots $x = -2$, $x = 1$ and $x = 5$ and $f(2) = -4$

12. $g(x)$ has roots $x = -4$, $x = 1$ and $x = -1$ and the y -intercept is 8.

