

Curve Sketching

In problems 1-10, Find the a) domain, b) x-intercept(s), c) y-intercept, d) vertical asymptote(s), e) horizontal asymptote, f) slant asymptote, g) intervals of increasing/decreasing, h) min/max, i) intervals of concavity, j) inflection points and k) graph.

1. $f(x) = x^2 - 9x + 14$	2. $f(x) = x^3 - 3x + 2$
3. $f(x) = x^3 - \frac{3}{2}x^2 - 6x + 2$	4. $f(x) = x^4 + 5x^3 + 6x^2$
5. $f(x) = (x - 2)^4$	6. $f(x) = x^2 + \frac{1}{x^2}$
7. $f(x) = \frac{x + 2}{x^2 + 2x + 4}$	8. $f(x) = \frac{3x - 1}{x + 3}$
9. $f(x) = \frac{2}{x^2 - 8x + 12}$	10. $f(x) = \frac{x^2 - 15x + 50}{x - 3}$