

4.0 Increasing and Decreasing Functions

Ex. 1 Solve.

a) $3x^2 - 7x - 6 = 0$

b) $3x^2 - 7x - 6 > 0$

c) $x^2 + 2x > 24$

d) $x^3 - 4x^2 + x + 6 = 0$

Ex. 2 Try graphing each function. List what information would be useful in graphing such functions:

a) $f(x) = x^3 + 3x^2 - 2$

b) $f(x) = \frac{x}{x^2+1}$

