Graphs of Polynomial Functions

- Quadratic: $f(x) = x^2 - 2x$ (a^2 - zero)

D: $(-\infty, \infty)$

R: $[-1, \infty)$

Zeros: 0, 2

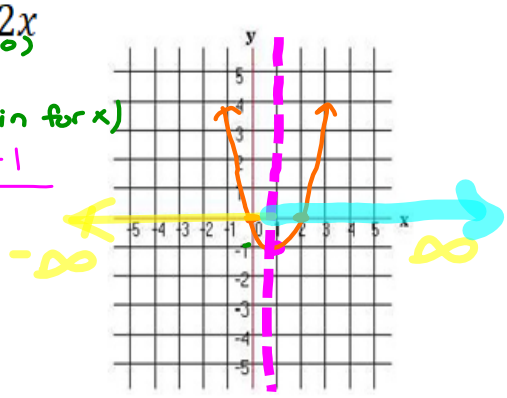
Inc: $(1, \infty)$

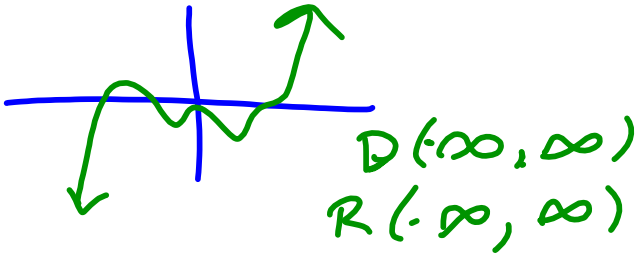
Dec: $(-\infty, 1)$

End behavior: ↑↑

y-int 0 (Plug zero in for x)

min -1





$$35 \overline{)1,225} \quad 35 \quad -105 \quad 175 \quad 175 \quad 0$$

$$25 \overline{)2625} \quad \frac{4}{25} \quad 4$$

$$\frac{35}{3} = 11\frac{2}{3}$$

$$3 \overline{)35} \quad 11\ \tfrac{2}{3} \quad -3 \quad 5 \quad -3 \quad 2$$