

- Let $g(x) = x^3 - 5x + 7$. Use synthetic division and the remainder theorem to compute $g(-3)$.

$$\begin{array}{r|rrrr} -3 & 1 & 0 & -5 & 7 \\ & & -3 & 9 & -12 \\ \hline & 1 & -3 & 4 & -5 \end{array}$$

↑

$$g(-3) = -5$$