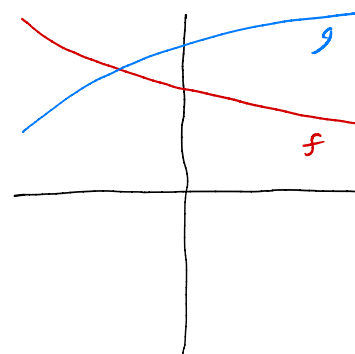
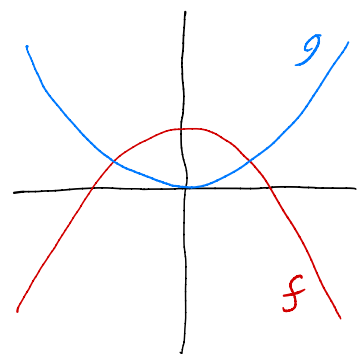
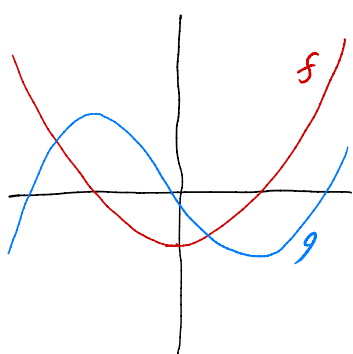
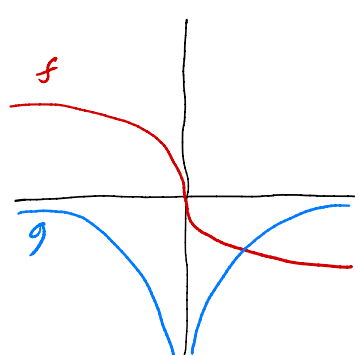
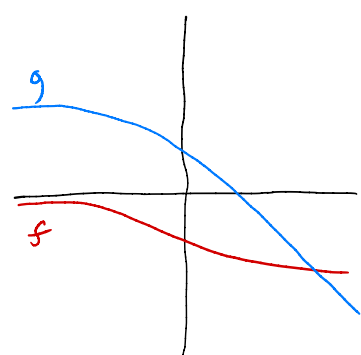
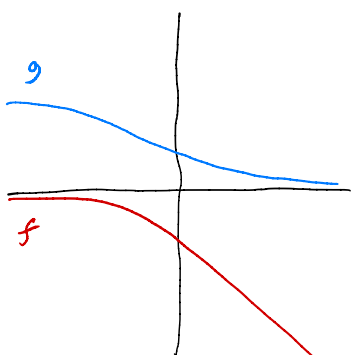
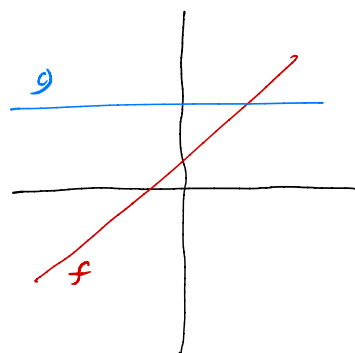
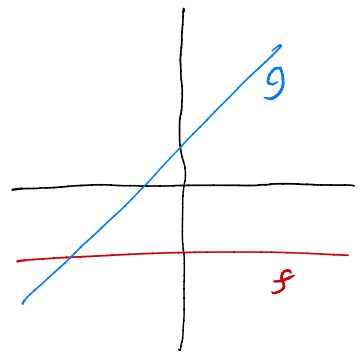
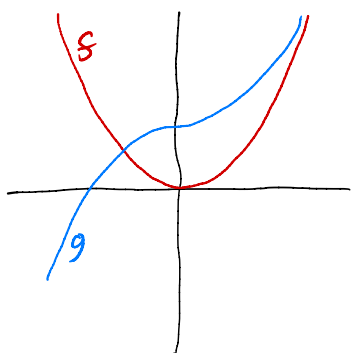
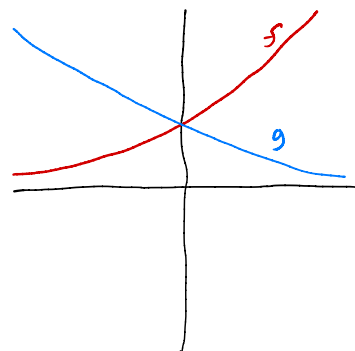
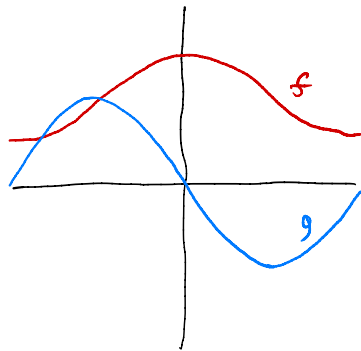
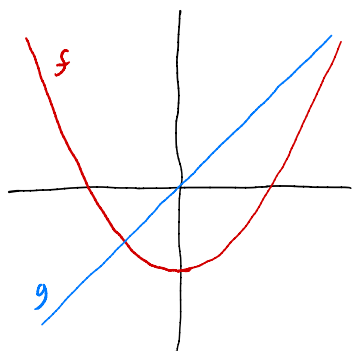


Esercizi su grafici e derivate

(A) Per ciascuna di queste coppie di grafici decidi se f è la derivata di g , o g quella di f , oppure non si da nessuno di questi due casi.



- (B) Traccia un grafico della funzione $f(x) = x^2 \cdot \log_e(|x|)$ e della sua derivata per x fra -2 e 2 .
- (C) Trova un polinomio di terzo grado $f(x)$ tale che $x^2 + x \cdot f'(x) = 3 \cdot f(x)$ e $f(1) = 0$.
- (D) Traccia il grafico di $f(x) = (1+x)^2(1-x)^5$ e della sua derivata $f'(x)$, per x fra -1 e 1 , quindi calcola esattamente in quali punti il grafico di $f(x)$ è orizzontale.
- (E) Traccia il grafico di $f(x) = \frac{x}{x^2+1}$ e della sua derivata $f'(x)$, per x fra -5 e 5 , quindi calcola esattamente in quali punti il grafico di $f(x)$ è orizzontale, e in quali raggiunge la massima e la minima pendenza.