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Calculus Exam I

- Part 1: No support materials allowed -

1. Through exercises 1.1 to 1.5 exactly one of the answers is correct. Mark the correct one with a cross.

1.1 How many real zeroes does the in \mathbb{R} defined function $f(x) = x \cdot (x - 7) \cdot (x^2 + 4)$ have?

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

1.2 The following graph shows the first derivative f' of f on an interval $I \subset \mathbb{D}_f$. The zero of f' is denoted by x_0 . Which of the following statements holds for f on I ?

☐ f is strictly decreasing.

☐ f is strictly increasing.

☐ f is strictly increasing for all $x < x_0$.

☐ f is strictly decreasing for all $x < x_0$.

☐ f does not have an extremum.



1.3 For which of the following functions f holds, that $\lim_{x \rightarrow \infty} f(x) = -1$?

☐ $f(x) = \frac{x+1}{x-1}$

☐ $f(x) = \frac{1+x}{1-x}$

☐ $f(x) = -\frac{1}{x}$

☐ $f(x) = \frac{1+x^2}{1-x}$

☐ $f(x) = \frac{1+x}{1-x^2}$

Calculus I Exam File

Richard K. Pefley



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