## Slopes & Tangent Lines

Use the grid and a straight edge to make a rough estimate of the slope of the curve (in y-units per x-unit) at the points  $P_1$  and  $P_2$ .



## Graphs

1. The graph in the accompanying figure is made of line segments joined end to end.



1.1 At which points of the interval [-4, 6] is f' not defined? Give reasons for your answer. 1.2 Graph the derivative of f. 2. Match the functions graphed with the derivatives graphed in Exercises 2.1-2.4 the accompanying figures (a)–(d).















• x





(d) .



## Differentiability & Continuity on an Interval

Each figure in Exercises 1–6 shows the graph of a function over a closed interval D. At what domain points does the function appear to be

- (a) differentiable?
- (b) continuous but not differentiable?
- (c) neither continous nor differentiable?
- 1. .









5. .



3. .



6. .

