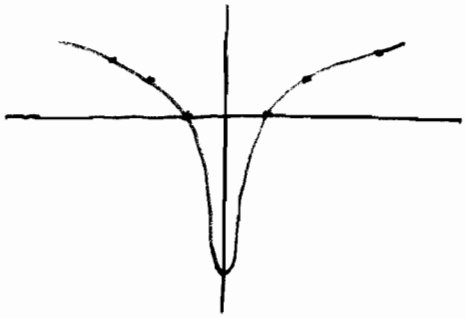
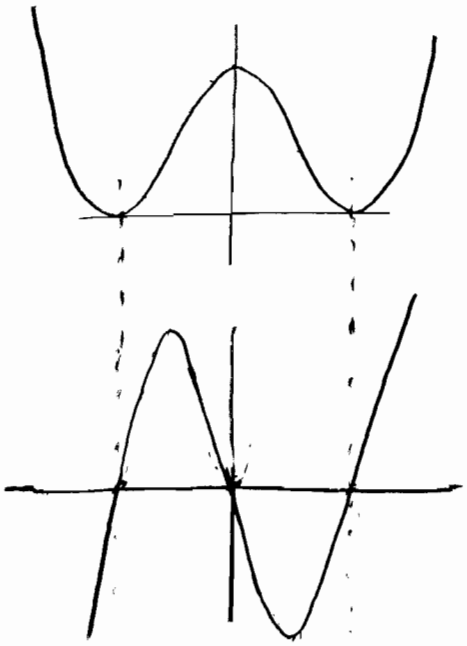
3-0235 — 50 SHEETS — 5 SQUARES
3-0236 — 100 SHEETS — 5 SQUARES
3-0237 — 200 SHEETS — 5 SQUARES
3-0137 — 200 SHEETS — FILLER
COMET

1) a. ≈1.5 b. ≈1 c. ≈0 d. ≈-4 e. ≈0 f. ≈1 g. ≈1.5

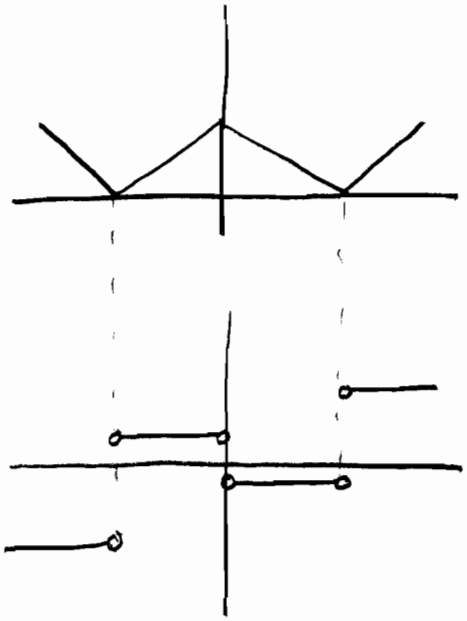


3) a: II b. IV c. I d. III

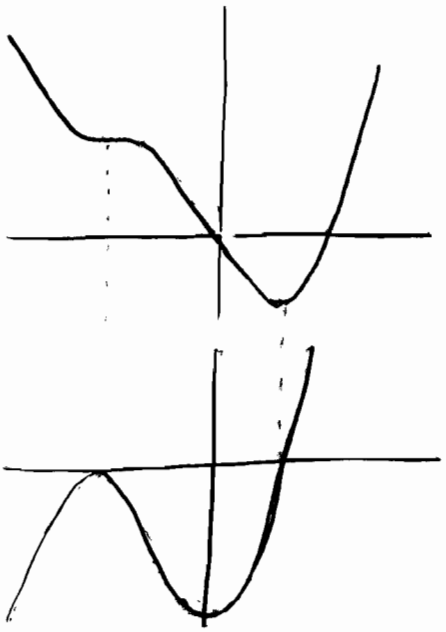
4)



9)

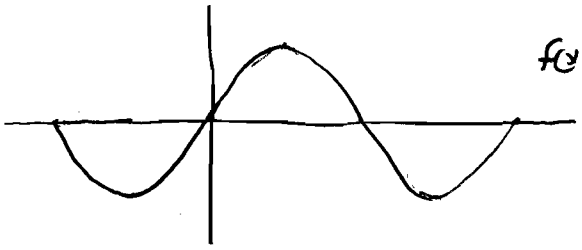


10)

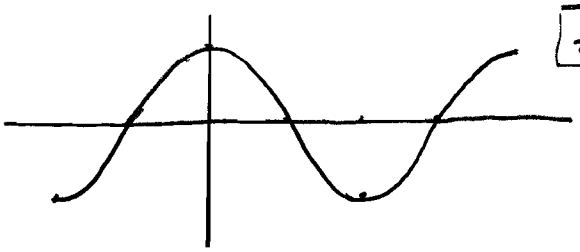


3-0235 — 50 SHEETS — 5 SQUARES
3-0236 — 100 SHEETS — 5 SQUARES
3-0237 — 200 SHEETS — 5 SQUARES
3-0137 — 200 SHEETS — FILLER
COMET

14)



$f(x) = \sin x$



$\boxed{f'(x) \text{ appear to be } \cos x.}$

20) $f(x) = mx + b$

$$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h} = \lim_{h \to 0} \frac{(m(x+h)+b) - (mx+b)}{h}$$

$$= \lim_{h \to 0} \frac{mx + mh + b - mx - b}{h}$$

$$= \lim_{h \to 0} \frac{mh}{h}$$

$$= \boxed{m}$$

$\boxed{\text{Domain of } f = \text{Domain of } f' = \mathbb{R}}$

36) f is not differentiable at:

$x = 0$: discontinuous
$x = 3$: corner point or vertical tangent

41) f is graph a

f' is graph b

f'' is graph c

Why? Because $b = 0$ where a has a horizontal tangent, and $c = 0$ where b has a horizontal tangent. Also, c is negatives when b has a negative slope. The same with b, which is negative when a has a negative slope.