

Solutions 2

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1. (a) There exists a function f in which h will no longer be even.
 (b) There exists a function f in which h will no longer be odd.
 (c) ?
 (d) ?
2. $ad + b = cb + d$
 $b(1 - c) + d(a - 1) = 0.$
3. (a) i. $m = 0.5$
 ii. $m = \frac{5}{14}$
 iii. $m = 0.3355$
 iv. $m = 0.333555$
 v. $m = \frac{1}{4}$
 vi. $m = \frac{5}{16}$
 vii. $m = 0.3311$
 viii. $m = 0.333111$
 (b) $\frac{1}{3}$
 (c) $y = \frac{1}{3}x + \frac{4}{3}$
4. (a) i. $\frac{1}{6}$
 ii. -0.2122
 iii. -0.163
 iv. -0.1595
 (b) -0.15
5. (a) 4
 (b) 4
 (c) 4
 (d) undefined
 (e) 1
 (f) -1
 (g) undefined
 (h) 1
 (i) 2
 (j) undefined
 (k) 3
 (l) undefined