

PROBLEM SHEET 1

(1) $0.\bar{2}$

(2) $\frac{127}{999}$

(3) (a) $x = -\frac{1}{2}$ or $x = -\frac{9}{2}$

(b) $3 < x < 5$

(c) $x < -3$ or $x > 1$

(d) $x \leq 1$

(4) proof

(6) $x = p$

(7) $y = \frac{1}{2}x + 3$

(8) ON

(9) $y = x + 2$