

3

5

(a) Solve

(i) $(9-x)(3-4x)=0$ $x=9$ or $x=3/4$

(ii) $3k+5=41$ $3k=41-5$ $3k=36$ $k=12$

(iii) $19-3x=9x-15$ $-3x-9x=-15-19$
 $-12x=-34$

(b) Solve these equations. $x = -34/-12 = 17/6$

(i) $\frac{5x+4}{3} = \frac{3x+1}{2}$ $= \frac{2(5x+4)}{6}$ $2(5x+4) = 3(3x+1)$
 $10x+8 = 9x+3$
 $x = -5$

(ii) $x^2+6x=55$
 $x^2+6x-55=0$
 $(x+11)(x-5)=0$ $x=-11$ or $x=5$