

# Solving Linear Equations and Inequalities

LEVEL 4

① (a)  $x = -2$  (b)  $y = 5$  (c)  $z = -5$

② (a)  $x = 4$  (b)  $z = 5$  (c)  $y = \frac{1}{2}$

③ (a)  $2x = 9$  (b)  $5z = -5$  (c)  $4y = 14$  (d)  $3k = 6$   
 $x = \frac{9}{2}$   $z = -1$   $y = \frac{7}{2}$   $k = 2$

(e)  $6a - 6 = 4a + 8$  (f)  $9 = 3x$   
 $2a = 14$   $x = 3$   
 $a = 7$

④ (a)  $7x = -18$  (b)  $8x = -4$  (c)  $6 = 2x$   
 $x = -9$   $x = -\frac{1}{2}$   $x = 3$

⑤ (a)  $x > 6$  (b)  $5x \leq 25$  (c)  $3x > -9$   
 $x \leq 5$   $x > -3$