

**Algebra Skills Review**

2 POINTS EACH – NO PARTIAL CREDIT – NO CALCULATORS

1 Simplify  $\frac{7 + \frac{3}{5}}{2 - \frac{1}{3}}$  into a single fraction.

2 Solve for  $t$  in  $3^{2t-5} = \sqrt{27}$

3 Solve for  $x$  in  $3x(x - 2) = x^2 - x + 7$

4 Combine  $\frac{3z^2 + 2}{z^2} - \frac{5z + 1}{7z}$  into a single fraction and simplify.

5 Solve the system of equations:  
 $3y - 2x = 8$   
 $x + 2y = 3$