Practice worksheet | Quadratics and polynomial graphs

Sum and product of roots

Name: _____ Date: _____

6 questions | 14 marks

1. Find root sum/product for $x^2 - 8x + 10 = 0$. [2 marks]

2. Find root sum/product for $4x^2 + 3x - 2 = 0$. [2 marks]

3. Form a monic equation with root sum -3 and product 2. [2 marks]

4. One root of $x^2 - 7x + 12 = 0$ is 3. Find the other without full factorisation. [2 marks]

5. Roots of $x^2 - 4x + 1 = 0$ are r, s. Form an equation with roots $2r, 2s$. [3 marks]

6. One positive root of $x^2 - kx + 15 = 0$ is three times the other. Find k. [3 marks]