

National 5 Homework

Algebraic Skills

Using the Quadratic Formula to find roots

1. Solve the equation

$$x^2 + 7x - 13 = 0$$

Round your answer correct to one decimal place.

2. Find the roots of the quadratic function with equation  $f(x) = 3x^2 - x - 5 = 0$ .  
Round your answer correct to one decimal place.

3. Solve the equation  $x^2 + 6x + 3 = 0$ .  
Round your answer correct to one decimal place.

4. Solve the equation

$$x^2 - 6x - 2 = 0.$$

Round your answers correct to one decimal place.

5. Find the roots of the quadratic function with equation  $f(x) = 4x^2 + 5x - 2 = 0$ .  
Round your answers correct to one decimal place.

6. Solve the quadratic equation  $3x^2 - 2x - 8 = 0$ .  
Round your answers correct to one decimal place.

7. Solve the equation

$$4x^2 + 2x - 7 = 0$$

Round your answers correct to one decimal place.

8. Solve the quadratic function with equation  $f(x) = 3x^2 + 5x - 2 = 0$ .  
Round your answers correct to one decimal place.

9. Solve the equation

$$2x^2 - 5x - 3 = 0.$$

Round your answers correct to one decimal place.

10. Solve the quadratic function with equation  $f(x) = 2x^2 - 7x + 4 = 0$ .  
Round your answers correct to one decimal place.