

Work out the value of x. Give your answer to 1 decimal place.

Given that
$$g(x) = 5x + 3$$

Work out an expression for $g^{-1}(x)$

4 Write $7\sqrt{50}$ in the form $k\sqrt{2}$, where k is an integer.

5 Starting with
$$x_0 = 1$$
, use the iteration formula

$$x_{n+1} = \frac{4}{x_n^2 + 2}$$

three times to find an estimate for the color to $x^3 + 2x = 4$

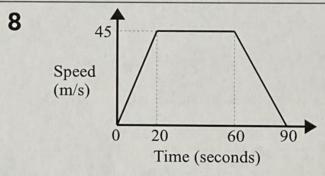
$$5, x = 0.5$$

Find the value of y when x = 0.25

$$V = IR$$

I = 6.7 correct to 1 decimal place R = 11.81 correct to 2 decimal places

Work out the upper bound for V. Give your answer to 2 decimal places.



Calculate the acceleration in the first 20 seconds

A circle has the equation
$$x^2 + y^2 = 7$$

- (i) Write down the coordinates of the centre of the circle.
- (ii) Write down the exact length of the radius of the circle.
- 10 The coordinates of the maximum point of a curve are (2, -5)

Write down the coordinates of the maximum point of the curve with equation y = f(x) + 2