Piecewise Functions

Examples

1. The function $f(x)$ is defined by

$$f:x\rightarrow \left\{\begin{array}{c}5-2x,   x<1\\x^{2}+3,  x\geq 1\end{array}\right.$$

1. Sketch $y=f\left(x\right)$, and state the range of $f\left(x\right)$.
2. Solve $f\left(x\right)=19$



Test Your Understanding

1. The function $f$ is defined by

$$f:x\rightarrow e^{x}+2,   x\in R$$

State the range of $f$.

1. The function $g$ is defined by

$$g:x\rightarrow x^{2}-4x+1,   x\in R, 0\leq x\leq 5$$

Find the range of $g$.

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