Evaluating Functions

1) If $g(x) = 2x^2 + x + 1$, then find the following.

   a) g(3)   b) g(–4)   c) g(1)   d) g(–6)

2) If $f(x) = 3x(x^2 – 18)$, then find the following.

   a) f(5)   b) f(0)   c) f(–4)   d) f(–1)

3) If $h(x) = \dfrac{2x - 7}{3}$, then find the following.

   a) h(2)   b) h(–1)   c) h(5)   d) h(–9)

4) If $p(x) = 5(5 – x)$, then find the following.

   a) p(–1)   b) p(–2)   c) p(9)   d) p(5)

Evaluating Functions

Answer key

1) If $g(x) = 2x^2 + x + 1$, then find the following.

   a) $g(3)$ b) $g(-4)$ c) $g(1)$ d) $g(-6)$

   22   **29**   **4**   **67**

2) If $f(x) = 3x(x^2 - 18)$, then find the following.

   a) $f(5)$ b) $f(0)$ c) $f(-4)$ d) $f(-1)$

   105   **0**   **24**   **51**

3) If $h(x) = \dfrac{2x - 7}{3}$, then find the following.

   a) $h(2)$ b) $h(-1)$ c) $h(5)$ d) $h(-9)$

   -1   **-3**   **1** $\dfrac{\mathbf{25}}{\mathbf{3}}$

4) If $p(x) = 5(5 - x)$, then find the following.

   a) $p(-1)$ b) $p(-2)$ c) $p(9)$ d) $p(5)$

   30   **35**   **-20**   **0**