Evaluating Functions

Evaluate each function.

1) $r(x) = -9x^2 - 6x$, Find $r(x^2)$

2) $m(n) = -2^{4n}$, Find $m(-4n)$

3) $h(s) = 10s^2 - 6s$, Find $h(-8)$

4) $z(m) = (-2)^{4m}$, Find $z(2)$

5) $d(x) = x^3 - 3x^2$, Find $d(9x)$

6) $k(z) = -10z$, Find $k(z + 9)$

7) $h(w) = 5w$, Find $h(7)$

8) $m(r) = r^3 - 5r^2$, Find $m(-6)$

9) $h(n) = n^2 + 7$, Find $h(2n + 6)$

10) $p(x) = 2^{x+2}$, Find $p(2)$

11) $g(p) = 2^{4p-2}$, Find $g(p - 6)$

12) $r(h) = -3h^2 - 9$, Find $r(4)$

Evaluating Functions

Evaluate each function.

1) $r(x) = -9x^2 - 6x$, Find $r(x^2)$

   $-9x^4 - 6x^2$

2) $m(n) = -2^{4n}$, Find $m(-4n)$

   -2^{-16n}

3) $h(s) = 10s^2 - 6s$, Find $h(-8)$

   688

4) $z(m) = (-2)^{4m}$, Find $z(2)$

   256

5) $d(x) = x^3 - 3x^2$, Find $d(9x)$

   $729x^3 - 243x^2$

6) $k(z) = -10z$, Find $k(z + 9)$

   $-10z - 90$

7) $h(w) = 5w$, Find $h(7)$

   35

8) $m(r) = r^3 - 5r^2$, Find $m(-6)$

   -396

9) $h(n) = n^2 + 7$, Find $h(2n + 6)$

   $4n^2 + 24n + 43$

10) $p(x) = 2^{x+2}$, Find $p(2)$

    16

11) $g(p) = 2^{4p-2}$, Find $g(p - 6)$

    2^{4p-26}

12) $r(h) = -3h^2 - 9$, Find $r(4)$

    -57