Evaluating Algebraic Expressions

1) Evaluate $x^2 - y$ by the given values

    i) $x = 5$ ii) $x = -6$ iii) $x = 2$
              $y = 11$ $y = 1.5$ $y = -1$

2) Evaluate $3(a - 5)(6 + a)$ by the given values

    i) $a = -7$ ii) $a = 10$ iii) $a = 2.4$

3) Evaluate $2k + 11$ by the given values

    i) $k = 3.5$ ii) $k = -4$ iii) $k = 8$

4) Evaluate $pq + r^2 - s$ by the given values

    i) $p = -2, q = 3$ ii) $p = 1, q = 1.7$ iii) $p = 1, q = 4$
              $r = 5, s = 13$ $r = -3, s = 6$ $r = 7, s = -10$

Evaluating Algebraic Expressions

Answer key

1)   Evaluate $x^2 - y$ by the given values

   i)   x = 5   ii)   x = –6   iii)   x = 2
           y = 11   y = 1.5   y = –1

   14   **34.5**   **5**

2)   Evaluate 3(a – 5) (6 + a) by the given values

   i)   a = –7   ii)   a = 10   iii)   a = 2.4

   36   **240**   **−65.52**

3)   Evaluate 2k + 11 by the given values

   i)   k = 3.5   ii)   k = –4   iii)   k = 8

   18   **3**   **27**

4)   Evaluate $pq + r^2 - s$ by the given values

   i)   p = –2 , q = 3   ii)   p = 1 , q = 1.7   iii)   p = 1 , q = 4
           r = 5 , s = 13   r = –3 , s = 6   r = 7 , s = –10

   6   **4.7**   **63**