Substitution – Negative Numbers

1. Given a = -3 and b = -4, find the value of $a^2 - ab$.

2. Given c = -10 and d = -5, find the value of $3c - d^2$

3. Given p = -2 and q = -6, find the value of $q^2 - 5p$

4. A = $x^2 - 3xy$. Find the value of A when x = -5 and y = -1.

5. P = $u^3 - 3u$. Find the value of P when u = -2.

6. H = $xy - 3y^2$. Find the value of H when x = -4 and y = -3.

7. T = $a(3a - c^2)$. Find T when a = -2 and c = -5.

8. L = $u(3u - w)$. Find l when u = -3 and w = -6.

9. $A = \dfrac{3x + y^2}{5x}$. Find A when x = -2 and y = -4.

10. $P = \dfrac{2u - u^3}{7}$. Find P when u = -3.

11. $X = \dfrac{2(y^3 - 4)}{y^2}$. Find X when y = -2.

12. $T = \dfrac{u(2w + u^2)}{u - w}$. Find T when u = -2 and w = -4.

13. $H = \dfrac{p^2(p - q)}{2q}$. Find H when p = -10 and q = -5.

14. $G = \dfrac{2x(x - y^2)}{y - x}$. Find G when x = -3 and y = -1.

15. $f(x) = 3x - x^2$. Find f(-2).

16. $f(x) = x^3 - x^2$. Find f(-3).

17. $f(x) = 2x - 4x^2$. Find f(-4).

18. $f(y) = 3y^2 - 5y$. Find f(-3).

19. $f(u) = 3u - u^3 - 6$. Find f(-2).

20. $f(a) = a^3 - 4a + 5$. Find f(-3)