

Year 9 Mathematics
Class Test 1

Marks:

Date: 31/08/2022

Name:

Question 1

Expand each of the following expressions.

- (a) $(2a + 5)(3x + 5y)$
- (b) $(5p - 1)(6q + 7r)$
- (c) $(-10c - 9d)(2e + 5f)$
- (d) $(4t - 3u)(v - 8w + 3)$
- (e) $(w + 4)(w - 11)$
- (f) $(3v - 5)(4 - v)$
- (g) $(6k + h)(5h - 4k)$
- (h) $(2x - 3y)(3x^2 - 4y)$

Question 2

Simplify each of the following expressions.

- (a) $(4x - 3z)(w + 2y) - (3w - 5z)(7y - x)$
- (b) $(2k + 1)(k - 4) - 3k(k - 7)$
- (c) $(m + 2)(m + 1) - (3m + 5)(9 - 5m)$
- (d) $2p^2(3p - 5q) - q(2q - 3p^2)$
- (e) $-4r(3rs + 4r - r^2t) - 2r^2(2r - 5s + 2st)$
- (f) $(2t + 3u)(u - 5t) - (3t - 7u)(t - u)$

Question 3

Expand each of the following expressions.

- | | | |
|---------------------------------------|-------------------|-------------------|
| (a) $(x + 6)^2$ | (b) $(4y + 3)^2$ | (c) $(7 + 3a)^2$ |
| (d) $\left(\frac{1}{2}x + 8\right)^2$ | (e) $(2x + 3y)^2$ | (f) $(5a + 2b)^2$ |

Question 4

Expand each of the following expressions.

- | | | |
|---------------------------------------|------------------|-------------------|
| (a) $(x - 4)^2$ | (b) $(5y - 3)^2$ | (c) $(8 - 2a)^2$ |
| (d) $\left(\frac{2}{3}x - 6\right)^2$ | (e) $(b - 3a)^2$ | (f) $(3a - 4b)^2$ |

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