Full Name: …….. **Date: 02 December 2024**

Short Assessment

Time Allowed: 25 minutes **Total Marks: 26**

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1. Given that,

$$p = \frac{ab - c^2}{3d}$$

find p, if $a = -4$, $b = 9$, $c = 3$ and $d = 2$.

(2 marks)

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2. Simplify the following expressions.

(a) $4x - 12 - 3y + 8 - 5x - 6y$

(1 mark)

(b) $2a^2 - 6b^2 + 4ab - 5a^2 - 2b^2 - 7ab$

(2 marks)

3. Simplify,

(a) $4x^3 \times 6x^5$

(1 mark)

(b) $\frac{6a^5}{3a^2}$

(1 mark)

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4. Expand the brackets and simplify,

(a) $5(x-y)+2(x+y)$

(2 marks)

(b) $3(5a-2b)-2(3a-4b)$

(2 marks)

(c) $4x(3x-7)-5x(2x+3)$

(2 marks)

(d) $3a(a-5)-(4a^2-8a)+7a-5$

(2 marks)

(e) $(2x - 3)(5x + 4)$

(2 marks)

(f) $(2 - 5p)(3p - 2)$

(2 marks)

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5. Solve the following equations. No marks will be given for trial and improvement method.

(a) $2x - 3 = 6x - 11$

(1 mark)

(b) $4(2x + 5) = 5x - 2(3x - 12)$

(3 marks)

(c) $(x - 2)(x - 4) = (x - 3)(x - 5)$

(3 marks)

- End of Test -