



UNIT PEPERIKSAAN
POLITEKNIK KUCHING SARAWAK

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No. Pend: 051PP17F2028

Program/Seksyen: IPPJA

Tarikh: 30 Januari 2018

Kod & Nama Kursus: PBM 1035

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Good

Question 1

(a.) i. $(5b^2 + 3b - 2) - (-2b^2 - 4b)$

$$= 5b^2 + 3b - 2 + 2b^2 + 4b$$

$$= 5b^2 + 2b^2 + 3b + 4b - 2$$

$$= 7b^2 + 7b - 2$$

ii. $(-x^3 + 5y)2xy$

$$= -2x^4y + 10xy^2$$

iii. $-x^3y^2z \div y^2z$

$$\frac{-x^3y^2z}{y^2z} = \frac{-x^3y^2z}{y^2z}$$

$$y^2z \sqrt{-x^3y^2z}$$

$$\frac{-x^3y^2z}{y^2z}$$

(b.) i. $32 \div (4 + 4)$

$$= 32 \div 8$$

$$= 4$$

ii. $4 + 28 \div 7$

$$= 4 + 4$$

$$= 8$$

Question 2

(a.) i. $2(x + a) = b$

$$2x + 2a = b$$

$$\frac{2x}{2} = \frac{b - 2a}{2}$$

$$x = \frac{b - 2a}{2}$$

ii. $\frac{1}{2}x - a = 4b$

$$\frac{1}{2}x = 4b + a$$

$$\frac{1}{2}x = \frac{4b + a}{1}$$

$$x = 2(4b + a)$$

$$x = 8b + 2a$$

(b.) i. $-5 = 2 + d$

$$-5 - 2 = d$$

$$-7 = d$$

$$d = -7$$

ii. $\frac{1}{5}r - 23 = 16$

$$\frac{1}{5}r = 16 + 23$$

$$\frac{1}{5}r = 39$$



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iii. Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x^2 - 16x + 4 = 0$$

$$ax^2 + bx + c = 0$$

$$A = 1^2 \quad B = -16 \quad C = 4$$

$$x = \frac{-(-16) \pm \sqrt{(-16)^2 - 4(1^2)(4)}}{2(1^2)}$$

$$x = \frac{16 \pm \sqrt{256 - 16}}{2}$$

$$x = \frac{16 \pm 0}{2}$$

$$x = \frac{16 + 0}{2} \quad \text{or} \quad x = \frac{16 - 0}{2}$$

$$= \frac{16}{2}$$

$$= 8$$

$$= \frac{16}{2}$$

$$= 8$$