

TERHAD



NAMA	
KELAS	

i-MODUL KECEMERLANGAN SPM SMKA DAN SABK 2024

PEPERIKSAAN PERCUBAAN SPM 2024

MATEMATIK TAMBAHAN

3472/1

KERTAS 1

RUMUS FORMULAE

- 1 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
- 2 $a^m \times a^n = a^{m+n}$
- 3 $a^m \div a^n = a^{m-n}$
- 4 $(a^m)^n = a^{mn}$
- 5 $\log_a mn = \log_a m + \log_a n$
- 6 $\log_a \frac{m}{n} = \log_a m - \log_a n$
- 7 $\log_a m^n = n \log_a m$
- 8 $\log_a b = \frac{\log_c b}{\log_c a}$
- 9 $T_n = a + (n-1)d$
- 10 $S_n = \frac{n}{2}[2a + (n-1)d]$
- 11 $T_n = ar^{n-1}$
- 12 $S_n = \frac{a(r^n - 1)}{r - 1} = \frac{a(1 - r^n)}{1 - r}, r \neq 1$
- 13 $S_\infty = \frac{a}{1 - r}, |r| < 1$
-

$$32 \quad \sin 2A = 2 \sin A \cos A$$

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$$33 \quad \cos 2A = \cos^2 A - \sin^2 A$$

$$= 2 \cos^2 A - 1$$

$$= 1 - 2 \sin^2 A$$

$$\cos 2A = \cos^2 A - \sin^2 A$$

$$= 2 \cos^2 A - 1$$

$$= 1 - 2 \sin^2 A$$

$$34 \quad \tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

$$35 \quad \sin (A \pm B) = \sin A \cos B \pm \cos A \sin B$$

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- 2 Permudahkan ungkapan algebra yang berikut.

Simplify the following algebraic expression.

$$\frac{6^{a-2} + 6^{a+3}}{216}$$

[3 markah]

[3 marks]

Jawapan/ Answer:

[Lihat halaman sebelah

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Jawapan/ *Answer*:

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