

CONTOH HASIL JAWABAN TES SIKLUS SISWA

Kelas : Anggun April 2018
No. 01/VIII A

(21)

1. Diketahui

$DE = \frac{120}{20} \times 24 = 144$
 $CE = \frac{24}{20} \times 24 = 28,8$
 $CD = \sqrt{CE^2 + DE^2} = \sqrt{28,8^2 + 144^2} = 149,9$

2. Ditanya : R_1 dan R_2 ?

Jawab :

$$AB^2 = CD^2 - (R_1 + R_2)^2$$

$$24^2 = 15^2 - (R_1 + R_2)^2$$

$$144 = 225 - (R_1 + R_2)^2$$

$$(R_1 + R_2)^2 = 225 - 144$$

$$(R_1 + R_2)^2 = 81$$

$$R_1 + R_2 = \sqrt{81}$$

$$R_1 + R_2 = 9$$

$$R_1 = 9 - R_2$$

$$R_1 = 9 - 3 = 6 \text{ cm}$$

2. Ditanya : Berapa kali mesin berputar ?

Jawab :

$$40\sqrt{2} + \frac{1604}{21} = 40\sqrt{2} + 75,9 \text{ cm}$$

2. $R_1 = 2 \times 3 = 6 \text{ cm}$
 $R_2 = 3 \text{ cm}, R_3 = 6 \text{ cm}$

Diketahui:

Ditanya: Jarak pusat ke simpul lingkaran?

Jawab:

$$CF^2 = AB^2 - (R+r)^2$$

$$17^2 = AB^2 - (10+3)^2$$

$$17^2 = AB^2 - 169$$

$$AB^2 = 169 + 17^2$$

$$AB^2 = 48^2 = 2316$$

$$AB = \sqrt{2316}$$

Ditanya: Jarak pusat ke simpul lingkaran?

Jawab:

$$CD^2 = AB^2 - (R-r)^2$$

$$(23)^2 = AB^2 - (10-3)^2$$

$$49^2 = AB^2 - 49$$

$$49^2 = AB^2 - 49$$

$$AB^2 = 49 + 49^2$$

$$AB^2 = 2401$$

$$AB = \sqrt{2401} = 49$$

Ditanya: Jarak pusat ke simpul lingkaran?

Jawab:

$$AB^2 = 48^2 = 2316$$

$$AB^2 - 17^2 = 49^2$$

$$3AB^2 = 623$$

$$AB^2 = 623$$

$$AB = \sqrt{623}$$

Ditanya: Jarak pusat ke simpul lingkaran?

Jawab:

$$AB = \sqrt{2316}$$

Ditanya: Jarak pusat ke simpul lingkaran?

Jawab:

$$CD = \sqrt{300} = \sqrt{2 \cdot 150} = 20\sqrt{2}$$

4. Diketahui :



Ditanya : a) Panjang pagar minimal yang akan dipasang ?

Jawab :

$$\begin{aligned}
 1) \quad 5r &= 6 \times 2 \\
 &= 12 \\
 1 \times 6 &= 12 \\
 &= 2 \times \frac{12}{2} \times 2 \\
 &= 12 \\
 \text{panjang pagar} &= 12 + 12 \\
 &= 24 \text{ m}
 \end{aligned}$$

b) luas tanah yang dimiliki rumpuk ?

$$\begin{aligned}
 L_{pp} &= p \times l \\
 &= 14 \times 2 \\
 &= 28 \\
 L_{\frac{1}{2}O} &= \frac{1}{2} \times \pi r^2 \\
 &= \frac{1}{2} \times \frac{22}{7} \times 2 \times 2 \\
 &= 14 \\
 L_{pp} - L_{\frac{1}{2}O} &= 28 - 14 \\
 &= 14
 \end{aligned}$$