

Tugas

No. _____

Date: _____

* Rasio (Perbedaan Trigonometri pada segitiga s.d.s)

1. sisi $c = 5$ catrum

Panjang sisi $b = 2$ catrum

Misal mencari perbandingan ?

$r^2 = c^2 + d^2$

$r^2 = 5^2 + 2^2$

$r^2 = 29$

$r = \sqrt{29}$

$= 5,3$

Misal $k = b$

$\sin = \frac{c}{r} = \frac{5}{5,3}$

$\cos = \frac{d}{r} = \frac{2}{5,3}$

$\tan = \frac{c}{d} = \frac{5}{2}$

$\cotan = \frac{d}{c} = \frac{2}{5}$

$\operatorname{cosec} = \frac{r}{c} = \frac{5,3}{5}$

$\sec = \frac{r}{d} = \frac{5,3}{2}$

2

Analis melihat menara dari jarak = 150 meter

Sudut elevasi = 30°

Jarak mata = 150 cm $\rightarrow t = 1,5$ m

(T) tinggi gedung tersebut ?

$$T = x \tan 30^\circ + t$$

$$T = 150 \times \frac{1}{3} \sqrt{3} + 1,5$$

$$T = (50 \sqrt{3} + 1,5) \text{ m}$$