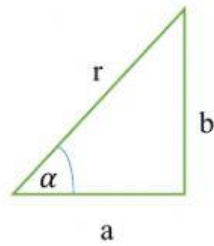


Sekolah	: SMKN 1 Balongan	LKPD 1 Perbandingan Trigonometri	Nama Siswa	:
Mapel	: Matematika		Kelas	: X TMI 1
Guru	: Widiharti, S.Pd.			



perhatikan segitiga siku-siku diatas maka berlaku:

$$\sin \alpha = \frac{\text{sisi depan sudut}}{\text{sisi miring}} = \frac{de}{mi} = \frac{b}{r}$$

$$\cos \alpha = \frac{\text{sisi samping sudut}}{\text{sisi miring}} = \frac{sa}{mi} = \frac{a}{r}$$

$$\tan \alpha = \frac{\text{sisi depan sudut}}{\text{sisi samping sudut}} = \frac{de}{sa} = \frac{b}{a}$$

$$\operatorname{cosec} \alpha = \frac{\text{sisi miring}}{\text{sisi depan sudut}} = \frac{mi}{de} = \frac{r}{b}$$

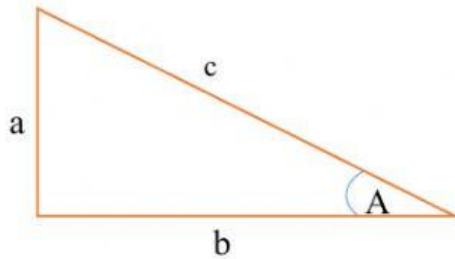
$$\sec \alpha = \frac{\text{sisi miring}}{\text{sisi samping sudut}} = \frac{mi}{sa} = \frac{r}{a}$$

$$\cot \alpha = \frac{\text{sisi samping sudut}}{\text{sisi depan sudut}} = \frac{sa}{de} = \frac{a}{b}$$

Sekolah	: SMKN 1 Balongan	LKPD 2 Perbandingan Trigonometri	Nama Siswa	:
Mapel	: Matematika		Kelas	: X TMI 1
Guru	: Widiharti, S.Pd.			

Tentukan perbandingan trigonometri untuk setiap segitiga siku-siku berikut ini:

Gambar 1



$$\sin A = \frac{a}{c}$$

$$\cos A = \frac{b}{c}$$

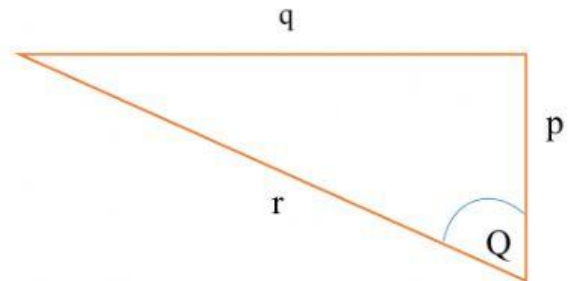
$$\tan A = \frac{a}{b}$$

$$\operatorname{cosec} A = \frac{c}{a}$$

$$\sec A = \frac{c}{b}$$

$$\cot A = \frac{b}{a}$$

Gambar 2



$$\sin Q = \frac{p}{r}$$

$$\cos Q = \frac{q}{r}$$

$$\tan Q = \frac{p}{q}$$

$$\operatorname{cosec} Q = \frac{r}{p}$$

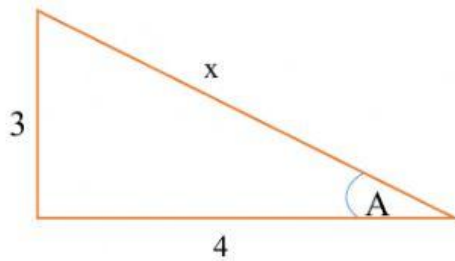
$$\sec Q = \frac{r}{q}$$

$$\cot Q = \frac{q}{p}$$

Sekolah	: SMKN 1 Balongan	LKPD 3 Perbandingan Trigonometri	Nama Siswa	:
Mapel	: Matematika		Kelas	: X TMI 1
Guru	: Widiharti, S.Pd.			

Tentukan perbandingan trigonometri untuk setiap segitiga siku-siku berikut ini:

Gambar 1



$$x = \sqrt{3^2 + 4^2} = 5$$

$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{3}{5}$$

$$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{4}{5}$$

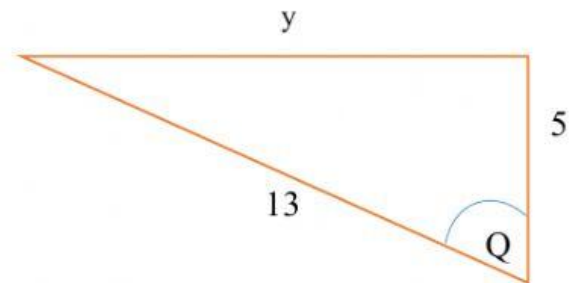
$$\tan A = \frac{\text{opposite}}{\text{adjacent}} = \frac{3}{4}$$

$$\operatorname{cosec} A = \frac{\text{hypotenuse}}{\text{opposite}} = \frac{5}{3}$$

$$\sec A = \frac{\text{hypotenuse}}{\text{adjacent}} = \frac{5}{4}$$

$$\cot A = \frac{\text{adjacent}}{\text{opposite}} = \frac{4}{3}$$

Gambar 2



$$y = \sqrt{13^2 - 5^2} = 12$$

$$\sin Q = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{5}{13}$$

$$\cos Q = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{12}{13}$$

$$\tan Q = \frac{\text{opposite}}{\text{adjacent}} = \frac{5}{12}$$

$$\operatorname{cosec} Q = \frac{\text{hypotenuse}}{\text{opposite}} = \frac{13}{5}$$

$$\sec Q = \frac{\text{hypotenuse}}{\text{adjacent}} = \frac{13}{12}$$

$$\cot Q = \frac{\text{adjacent}}{\text{opposite}} = \frac{12}{5}$$