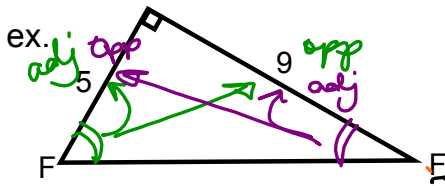


2.6 Utiliser des rapports trigos

Résoudre un triangle signifie trouver la mesure de tout les angles et côtés du triangle. Nos trois outils son...

- Trig: **SOH CAH TOA**
- Pythagore: $a^2 + b^2 = h^2$
- Théorem SAT: la Somme des Angles d'un Triangle = 180°



$$FE^2 = 5^2 + 9^2$$

$$FE = \sqrt{25 + 81}$$

$$FE = \sqrt{106}$$

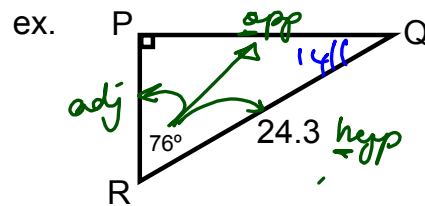
$$\tan \angle F = \frac{9}{5} \text{ (opp/adj)}$$

$$\angle F = \tan^{-1}\left(\frac{9}{5}\right)$$

$$\boxed{\angle F = 61^\circ}$$

$$\tan \angle E = \frac{5}{9}$$

$$\boxed{\angle E = 29^\circ}$$



$$\angle Q = 180^\circ - 90^\circ - 76^\circ$$

$$\boxed{\angle Q = 14^\circ}$$

$$\sin 76^\circ = \frac{PQ}{24.3}$$

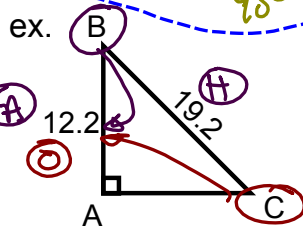
$$\cos 76^\circ = \frac{PR}{24.3}$$

$$24.3 \sin 76^\circ = PQ$$

$$PR = 24.3 \cos 76^\circ$$

$$\boxed{PQ = 23.6}$$

$$\boxed{PR = 5.9}$$



$$19.2^2 = 12.2^2 + AC^2$$

$$\sqrt{19.2^2 - 12.2^2} = \sqrt{AC^2}$$

$$\sqrt{219.8} = AC$$

$$\boxed{AC = 14.8}$$

$$\cos = \frac{A}{H}$$

$$\cos^{-1}\left(\cos \angle B = \frac{12.2}{19.2}\right)$$

$$\boxed{\angle B = 50.5^\circ}$$

$$\sin = \frac{O}{H}$$

$$\sin \angle C = \frac{12.2}{19.2}$$

$$\angle C = \sin^{-1}\left(\frac{12.2}{19.2}\right)$$

$$\boxed{\angle C = 39.5^\circ}$$