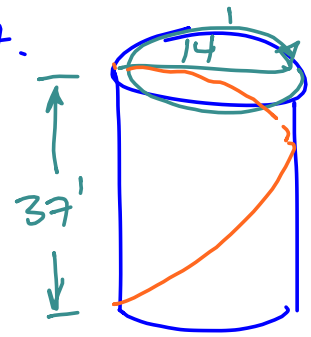
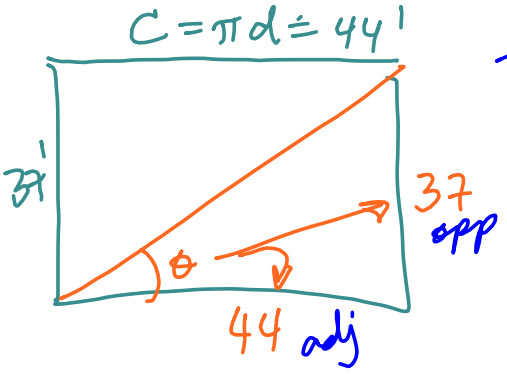
#17.





$\tan\theta = \frac{37}{44}$

$\theta = \tan^{-1}\left(\frac{37}{44}\right)$

$\theta = 40^\circ$

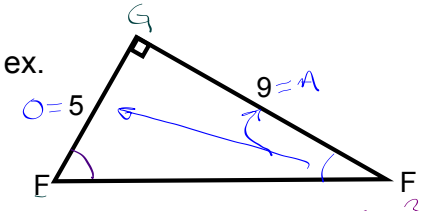
2.6 Utiliser des rapports trigos

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

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

Essaie de seulement utilier les valeurs données

ex.



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

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

$\angle F = 29.0546...°$

$\angle F \doteq 29.1°$

$EF^2 = 5^2 + 9^2$

$EF = \sqrt{25+81}$

$EF = 10.295...$

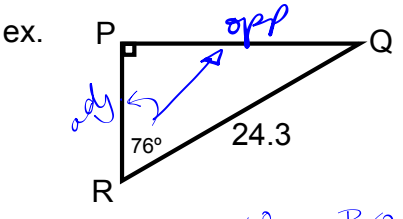
$EF = 10.3$

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

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

$\angle E = 60.9°$

ex.



$\sin 76° = \frac{PQ}{24.3}$

$PQ = 24.3 \sin 76°$

$PQ \doteq 23.6$

$\cos 76° = \frac{PR}{24.3}$

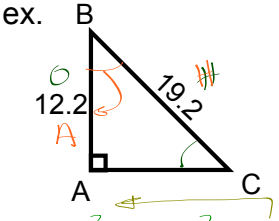
$PR = 24.3 \cos 76°$

$PR = 5.9$

$\angle Q = 180° - 76° - 90°$

$\angle Q = 14°$

ex.



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

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

$AC = 14.8$

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

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

$\angle C = 39.5°$

$\cos \angle B = \frac{12.2}{19.2}$

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

$\angle B = 50.5°$

$\angle C + \angle B = 90°$

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Quiz demain 2.4-2.5