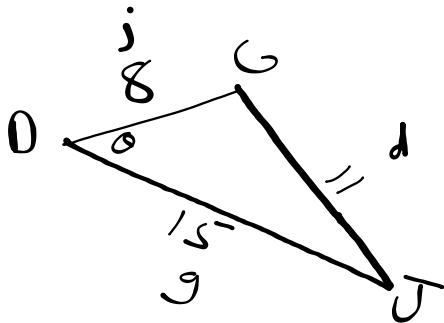


TRY: In $\triangle DJG$, DG is 8, JG is 11 and DJ is 15. Solve for D.



$$d^2 = g^2 + j^2 - 2gj \cos D$$

$$11^2 = 15^2 + 8^2 - 2(15)(8) \cos D$$

$$121 = 225 + 64 - 240 \cos D$$

$$121 = \cancel{289} - 240 \cos D$$

~~-289~~ ~~-289~~

$$\underline{-168} = \underline{\cancel{-240} \cos D}$$

~~-240~~ ~~-240~~

$$0.7 = \cos D$$

$$\cos^{-1}(0.7) = \boxed{45.57^\circ}$$