

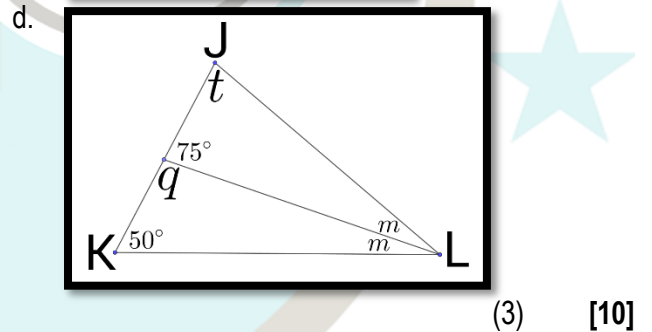
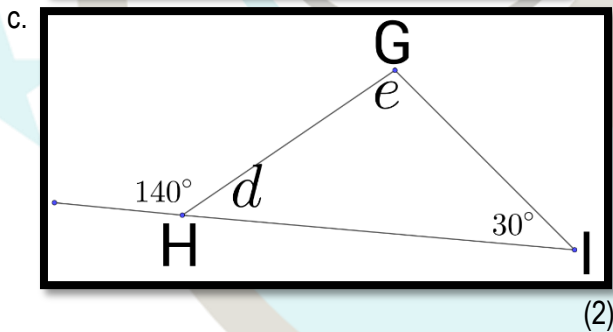
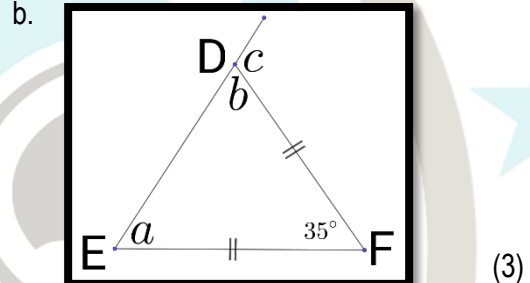
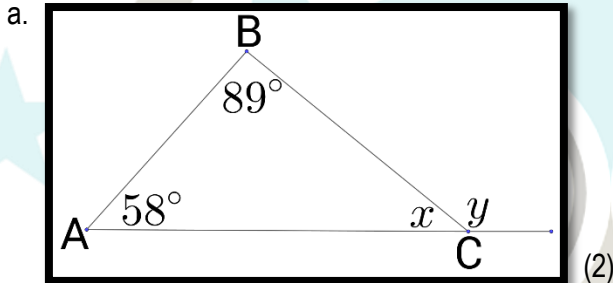
# KLASKAMER 10

## GRAAD 8 & 9 WISKUNDE: EPISODE 51

### MEETKUNDE VAN 2D FIGURE

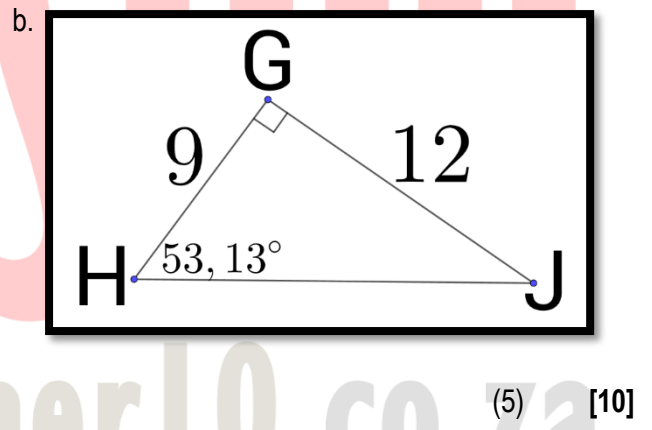
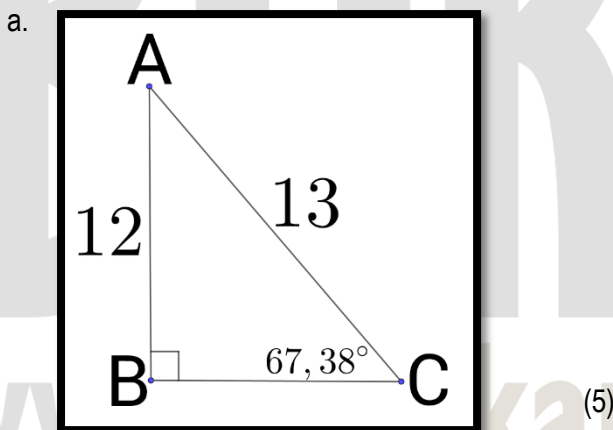
#### VRAAG 1:

In elk van die volgende driehoeke, bereken die waardes van die onbekendes, met **gepaste redes**:



#### VRAAG 2:

In elk van die volgende reghoekige driehoeke, los die driehoek volledig op (bepaal al die uitstaande sye en hoeke).



TOTAAL: 20 PUNTE

# GRAAD 8 & 9 WISKUNDE: EPISODE 51 (MEMORANDUM)

## MEETKUNDE VAN 2D FIGURE

### VRAAG 1

|    |   |
|----|---|
| a) | $x = 33^\circ$ (Binne∠'e van $\Delta$ ) ✓<br>$y = 147^\circ$ (∠'e op'n rthlyn) ✓  |
| b) | $a = b = \frac{180^\circ - 35^\circ}{2} = 72,5^\circ$ (Binne∠'e van $\Delta$ & ∠'e teenoor gelyke sye) ✓<br>$c = 107,5^\circ$ (∠'e op'n rthlyn) ✓ |
| c) | $d = 40^\circ$ (∠'e op'n rthlyn) ✓<br>$e = 110^\circ$ (Binne∠'e van $\Delta$ ) ✓  |
| d) | $q = 105^\circ$ (∠'e op'n rthlyn) ✓<br>$m = 25^\circ$ (Binne∠'e van $\Delta$ ) ✓<br>$t = 80^\circ$ (Binne∠'e van $\Delta$ ) ✓                     |

### VRAAG 2

|    |   |
|----|---|
| a) | $\hat{A} = 22,62^\circ$ (Binne ∠'e van $\Delta$ ) ✓<br>$AC^2 = AB^2 + BC^2$ (Pythagoras) ✓<br>$(13)^2 = (12)^2 + BC^2$ ✓<br>$169 = 144 + BC^2$ ✓<br>$\therefore 25 = BC^2$<br>$\therefore 5 = BC$ ✓ |
| b) | $\hat{J} = 36,87^\circ$ (Binne ∠'e van $\Delta$ ) ✓<br>$HJ^2 = GH^2 + GJ^2$ (Pythagoras) ✓<br>$HJ^2 = (9)^2 + (12)^2$ ✓<br>$HJ^2 = 81 + 144$ ✓<br>$\therefore HJ^2 = 225$<br>$\therefore HJ = 15$ ✓ |