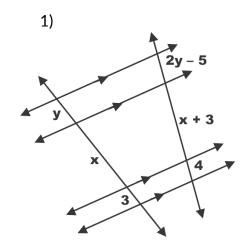
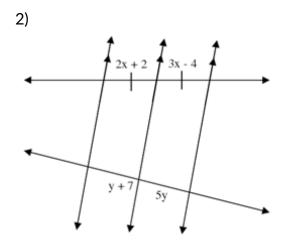
Name:

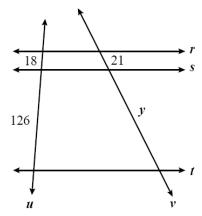
Proportions and Similar Triangles

Exercise 1: Find the values of x and y.





Exercise 2: In the figure below, $r \square s \square t$. Lines u and v are transversals. What is the length of y?



Exercise 3: Given that \overline{ST} bisects $\angle RSQ$ of ΔQRS . Find the indicated measure.

- 1) QS = 16, RS = 20. QT = x+3, TR= 2x 3, TR?
- 2) QS = 3, RS = 5. QT = 2x+1, TR = 4x-5, TR?
- 3) QS =8, RS = 12. QR = 10, TR?
- 4) QS =12, RS = 16. QR = 14, QT?
- 5) Perimeter of \triangle QRS = 27, QT=4, TR= 5, QS=?
- 6) Perimeter of Δ QRS =80, QT=14, TR= 18, S=?

