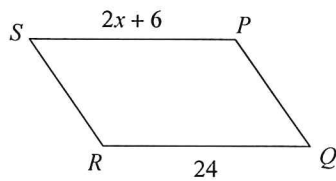
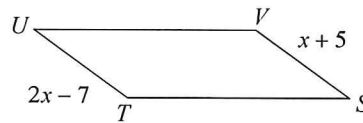


Solve for x. Each figure below is a parallelogram. (Proof I)

1)

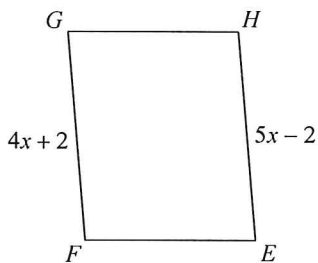


2)

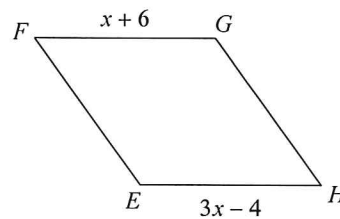


Find the measurement indicated in each parallelogram. (Proof I)

3) Find FG

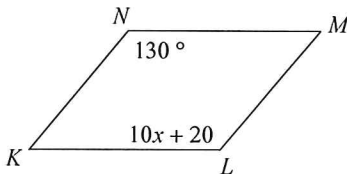


4) Find FG

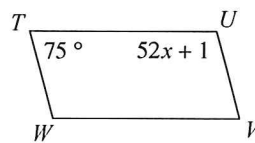


Solve for x. Each figure is a parallelogram. (Proof II and discussion)

5)

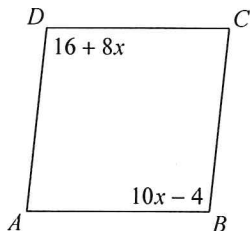


6)

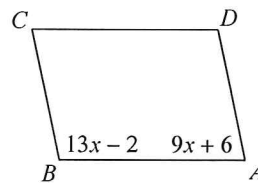


Find the measurement indicated in each parallelogram. (Proof II and discussion)

7) Find $m\angle A$



8) Find $m\angle B$



7-18. Factor the following expressions completely. Hint: Always look for common factors first.

a. $15x^2 + 39x - 18$

b. $6t^2 - 26t + 8$

c. $6x^2 - 24$

7-20. Change each expression into radical form and give the value. No calculator should be necessary.

a. $125^{2/3}$

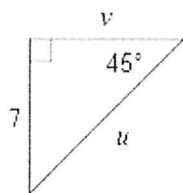
b. $16^{1/2}$

c. $16^{-1/2}$

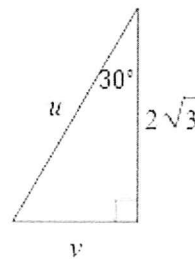
d. $\left(\frac{1}{81}\right)^{1/4}$

Find the missing side lengths. Leave your answers as radicals in simplest form.

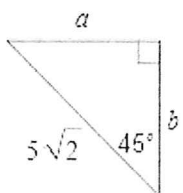
1)



2)



3)



4)

