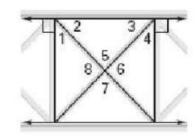
## Stair Railing: A stair railing is designed as shown in the figure.

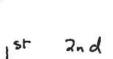
Use the angles identified in the figure to name two pairs of the indicated type of angle pair.

- 41 & 42 43844 25. Complementary angles
- 25 &28 26. Supplementary angles
- 25 &27 28. Vertical angles
- 28&27 29. Linear pair
- 30. Adjacent angles



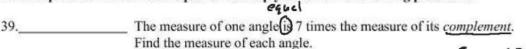
## Using the diagram, tell whether the angles are vertical angles, a linear pair, or neither.

- 31. Linear Pain /1 and /2
- 32. Viltical 6's 21 and 23
- 33. Nc. + ler /2 and /4
- 34. Neither 24 and 25
- 35. Vertical L'S 26 and 28 36. Linear Pair 28 and 29
- 37. Linear Pair /11 and /10
- 38. Ne; ther 210 and 27



90-x

## Draw a picture and write an equation to help you solve the following problems.



of each angle.  

$$X = 7(90-x)$$
  $\frac{8x}{8} = 430$   
 $X = 630-7x$   $x = 78.75$ 

The measure of one angle is  $38^{\circ}$  less than the measure of its supplement. 40.

Find the measure of each angle. 
$$X = (180-x)-38$$

$$X = 142-x$$

$$X = 142-x$$

$$X = 142-x$$