27.. Key is to solve for x in the inequality

Third Side or Second Side = x

$3 + 7 > x$

$10 > x$

Third side is greater than 10

$3 + x > 7$

$-3 \quad -3$

$x > 4$

Third side is greater than 4

$x + 7 > 3$

$-7 \quad -7$

$x > -4$

A side of a triangle cannot be negative,

$$\boxed{4 < x < 10}$$

29. $15 + 12 > x$

$27 > x$

$15 + x > 12$

$-15 \quad -15$

$x > -3$

$12 + x > 15$

$-12 \quad -12$

$x > 3$

$$\boxed{3 < x < 27}$$

30 ① Establish Cases

First Side = 13

Second Side = x

Third Side = 6

Third Side = 32

$13 + x > 6$

$-13 \quad -13$

$x > -7$

2nd Side greater than -7

$13 + x > 32$

$-13 \quad -13$

$x > 19$

2nd Side greater than 19

$$\boxed{-7 < x < 19}$$