Answer on Question #40705 - Math - Algebra

A man is 24 years older than his son. 12 years ago, he was five times as old as his son. What are the present ages of both?

Solution:

Let X years be a man at present time.

Let (X-24) years be his son at present time.

Than, from the problem above:

X-12=5((X-24)-12),

X-12=5(X-36), X-12=5X-180,

-4X=-168, whence

X=42 (years).

42-24=18 (years).

Answer: 42 and 18.