

May 26th

Find three different isosceles triangles whose sides are $3x + 1$, $4x - 1$ and $5x - 4$.

$$3x + 1 = 4x - 1$$

Hence

$$x = 2$$

So the sides are **7, 7 and 6**

$$4x - 1 = 5x - 4$$

Hence

$$x = 3$$

So the sides are **10, 11 and 11**

$$3x + 1 = 5x - 4$$

Hence

$$x = 2.5$$

So the sides are **8.5, 8.5 and 9**