



Construct the angle bisector for the angle above.

1.5 2 2.5 3 3.5 ....  
 0.5 1 1.5 2 2.5  
 Work out the nth term  
 $0.5n + 1$

Work out the 20th term.  
 $0.5 \times 20 = 10$   
 $10 + 1 = 11$   
 =

Solve  $8y + 2 = 30 + 6y$   
 $-6y \quad -6y$   
 $2y + 2 = 30$   
 $-2 \quad -2$   
 $2y = 28$

$y = 14$

ABC and DEF are similar triangles.

Find the length of EF.

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$$

$$42^2 + 144^2 = EF^2$$

$$EF^2 = 22500$$

$$EF = 150 \text{ cm}$$

