

Solve for n:

1)  $n(n + 2) + n + 2 = 12$

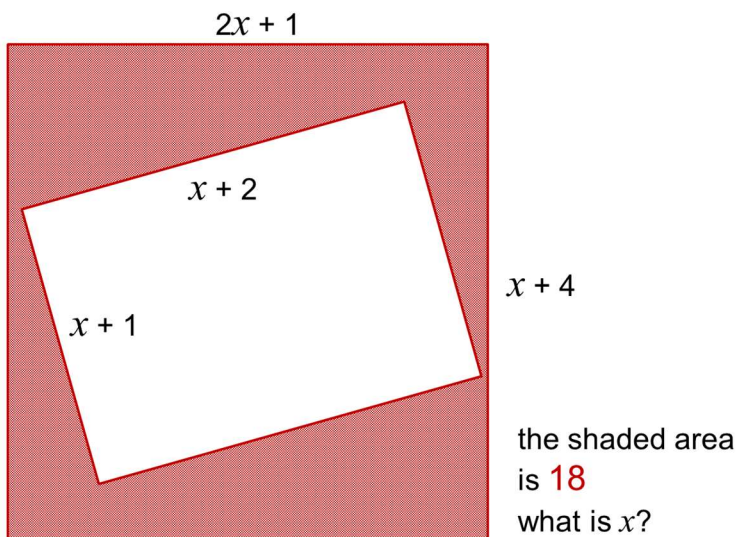
2)  $n^2 + (n + 1)^2 = 13$

3)  $n + (n + 1)(n + 2) = 14$

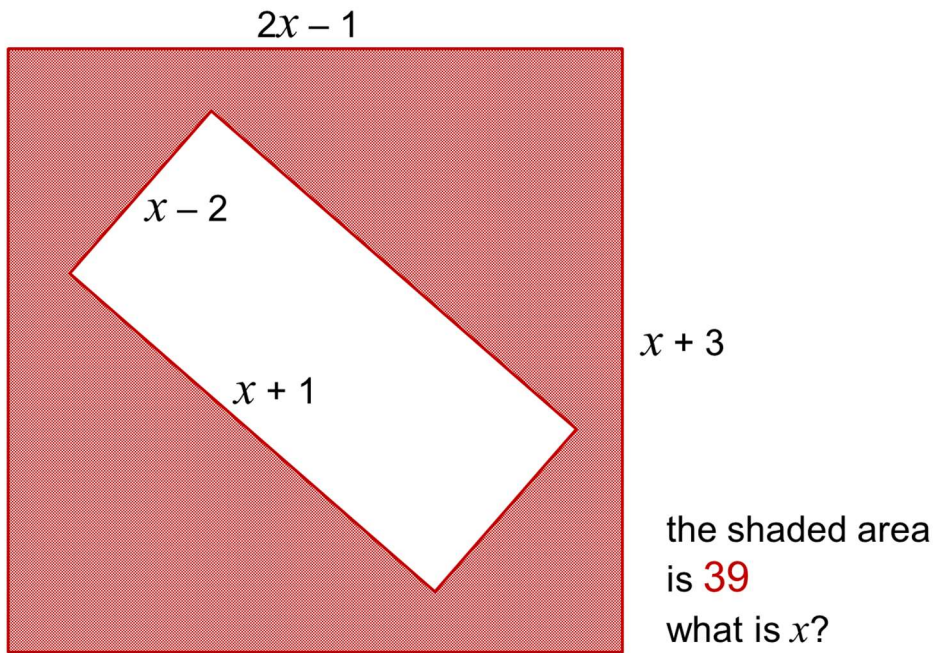
4)  $(3n - 1)(2n - 1) = 15$

5)  $n(n - 2) + 2n(n + 2) = 16$

SIX:

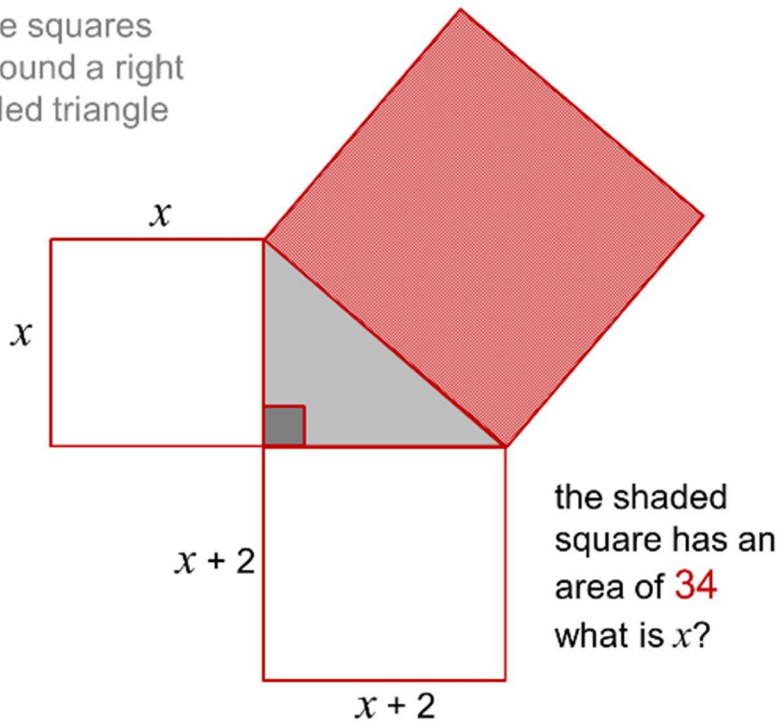


SEVEN:



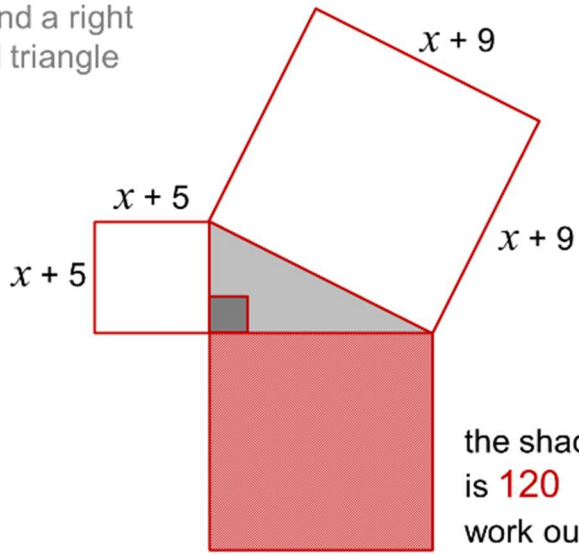
EIGHT:

three squares  
surround a right  
angled triangle



NINE:

three squares  
surround a right  
angled triangle

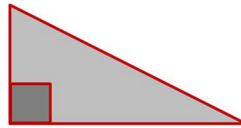


the shaded area  
is **120**  
work out what  $x$  is

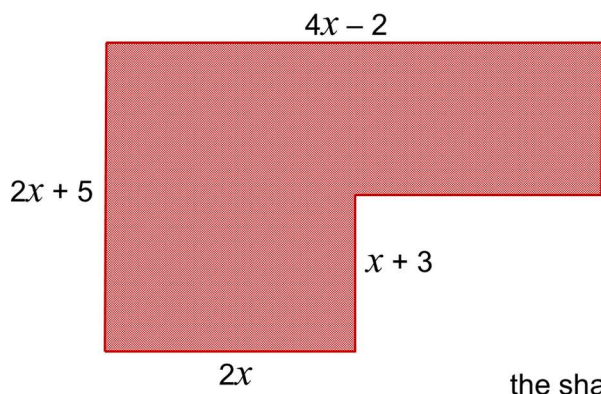
TEN:

work out the lengths of the sides of  
the right angled triangle if they are:

- (1)  $n + 2$  ,  $n + 4$  and  $n + 6$
- (2)  $x + 4$  ,  $5x - 6$  and  $5x - 4$



ELEVEN:



the shaded area  
is **206**  
what is  $x$ ?