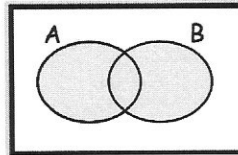




Which region is shaded?

$A \cap B$ $A' \cap B$ $A \cup B$ $A \cup B'$



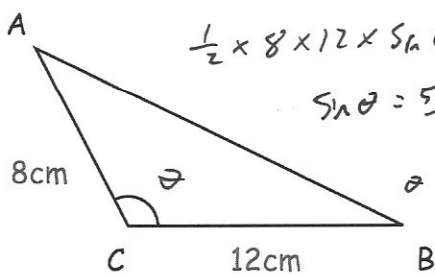
A van can carry a load of 1100kg to 2 significant figures.
 A brick has a mass of 2.8kg to the nearest 100g.
 Calculate the greatest number of bricks that can be safely put in the van.

1050kg
 2.85kg
 $1050 \div 2.85 = 368.421\dots$
368

Expand and simplify

$(6-x)^3$
 $(6-x)^2 = 36 - 12x + x^2$
 $(36 - 12x + x^2)(6-x)$
 $= 216 - 36x - 72x + 12x^2 + 6x^2 - x^3$

$-x^3 + 18x^2 - 108x + 216$



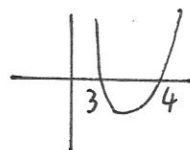
$\frac{1}{2} \times 8 \times 12 \times \sin \theta = 30$
 $\sin \theta = \frac{5}{8}$
 $\theta = 38.682$

The area of ABC is 30cm²
 Angle ACB is obtuse.
 Find the size of angle ACB.

or $(180 - 38.682\dots)$
 141.32°

Carl says the solution to $x^2 - 7x + 12 > 0$ is $3 < x < 4$

Is he correct?
 Explain your answer.



$x < 3$ or $x > 4$

No, Carl has answered
 $x^2 - 7x + 12 < 0$