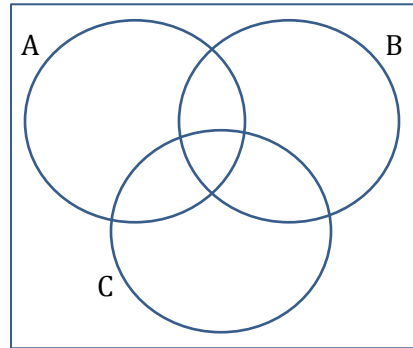


**Question 1 [CLO1, C2]**

Shade the region of the Venn diagram indicated by the sets.

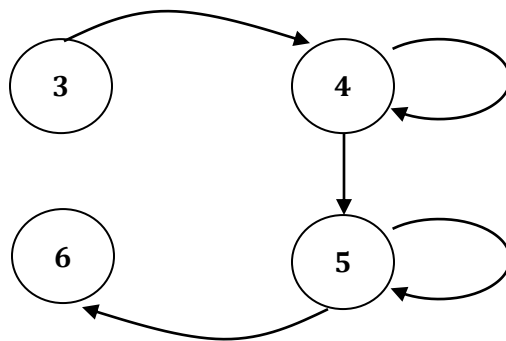
$$(A \cap B') \cap C$$

[2 marks]



**Question 2 [CLO1, C2]**

The following digraph shows the relation  $R$  on the set  $\{3, 4, 5, 6\}$ .



(a) Write the ordered pairs of relation  $R$ .

[2 marks]

(b) Determine whether  $R$  is reflexive,  $R$  is symmetric, and  $R$  is transitive. Explain your answers.

[6 marks]