

Cleavage as an indicator of overturned beds

The diagram below shows a syncline and an anticline cut by cleavage planes.

Where the bedding and cleavage dip in the same direction does the bedding or the cleavage have the steeper dip?

Turn the diagram so that the folds are asymmetric. Look again at a part of the diagram where the cleavage is dipping in the same direction as the bedding. Which has the steepest dip, the bedding or the cleavage?

Now turn the diagram so that some of the fold limbs are upside down. Is the bedding or the cleavage dipping at the steepest angle?

