

## Round: 10A

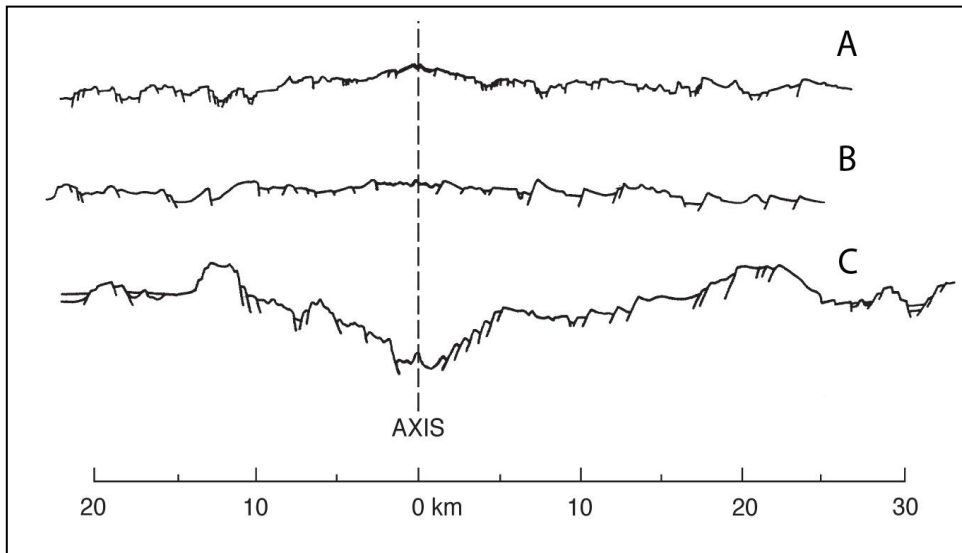


Figure 1:  
Cross  
Section of 3  
different  
mid-ocean  
ridges.

1. What process forms the mid-ocean ridges? (2 pts)
2. Match the characteristic, term, or location below with the letter of the most representative mid-ocean ridge shown above in Figure 1. Only one letter can be used per term below. (14 pts)

___ Presence of axial valley	___ Spreading rate of 12 cm/yr
___ Spreading rate of 2 cm/yr	___ Spreading rate of 7 cm/yr
___ East Pacific Rise	___ Presence of axial high
___ Slow-spreading	___ Fast-spreading
___ Intermediate-spreading	___ Ultramafic rocks likely to be found here
___ Juan de Fuca Ridge	___ Frequent small earthquakes are likely
___ Gakkel Ridge	___ Mid-ocean ridges with highest relief
3. Each of the small lines on the cross-section is representative of faulting. What type of faulting most likely occurs at the mid-ocean ridge, and how does the footwall move in relation to the hanging wall? (4 pts)