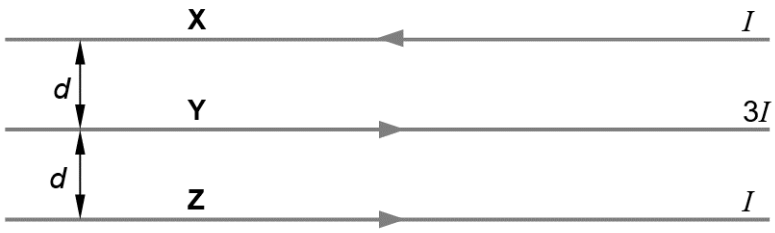
24 The diagram below shows three long, parallel, straight wires X, Y and Z placed in the same plane in a vacuum. Wires X and Z each carries a current of I, and wire Y carries a current of $3I$. Wire Y is halfway between wire X and wire Z.



The magnitude of the force per unit length acting between X and Z is F.

What is the direction and magnitude of the net force per unit length acting on Z?

	Direction	**Magnitude**
A	Towards Y	F
B	Towards Y	$5F$
C	Away from Y	$5F$
D	Away from Y	$7F$