2. Reflection and congruence

1	Mid point (1, -4)	B_1	
	$\dfrac{-3--5}{3--1} = \dfrac{2}{4} = \dfrac{1}{2}$ Grd of mirror line = -2	B_1	
	$\dfrac{y+4}{x-1} = -2$	M_1	
	$y + 4 = -2x + 2$	A_1	
	$y + 2x + 4 - 2 = 0$		
	$y + 2x + 2 = 0$		

1. (a) *Dist. traveled in 3hrs*   *s. drawing*
          Plane A – 400 x 3 = 1200km – cm
          Plane B – 500 x 3 – 7.5cm
          Plane C – 300 x 3 = 900km – 4.5cm

   (b) Dist. BA = 12.8 0.1 x 200 = 2560km 20km
          $T = \underline{D} = \underline{2560}$ *hrs*
              S *500*
          = 5.12hrs of 5hrs, 7.2mns
          $\approx$ *5hrs, 7min (nearest min)*

   (c) Bearing of B from C = $360^o - 20^o = 340^o$
              Dist. BC = (10.9 $\pm$ 0.1 x 200)km
                  = 2180km $\pm$ 20km