2. Reflection and congruence

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1	Mid point (1, -4)	B_1	
	$\frac{-35}{31} = \frac{2}{4} = \frac{1}{2}$ Grd of mirror line = -2	B_1	
	$\frac{y+4}{x-1} = -2$	M_1	
	y + 4 = -2x + 2 $y + 2x + 4 - 2 = 0$ $y + 2x + 2 = 0$	A_1	

- 1. (a) Dist. traveled in 3hrs s. drawing Plane $A 400 \times 3 = 1200 \text{km} \text{cm}$ Plane $B 500 \times 3 7.5 \text{cm}$ Plane $C 300 \times 3 = 900 \text{km} 4.5 \text{cm}$
 - (b) Dist. $BA = 12.8 \ 0.1 \ x \ 200 = 2560 km \ 20 km$ $T = \underline{D} = 2560 \ hrs$ S = 500 $= 5.12 hrs \ of 5 hrs, 7.2 mns$ $\approx 5 hrs, 7 min \ (nearest min)$
 - (c) Bearing of B from $C = 360^{\circ} 20^{\circ} = 340^{\circ}$ Dist. $BC = (10.9 \pm 0.1 \text{ x } 200)\text{km}$ $= 2180\text{km} \pm 20\text{km}$