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2. *Reflection and congruence*

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

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

$T = \frac{D}{S} = \frac{2560}{500}$ *hrs*

= 5.12hrs of 5hrs, 7.2mns

≈ 5hrs, 7min (nearest min)

(c) Bearing of B from C = $360^o - 20^o = 340^o$

Dist. BC = (10.9 ± 0.1 x 200)km

= 2180km ± 20km

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