

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 $\frac{y + 4}{x - 1} = -2$ $y + 4 = -2x + 2$ $y + 2x + 4 - 2 = 0$ $y + 2x + 2 = 0$	B₁ B₁ M₁ A₁	
---	---	---	--

1. (a) *Dist. traveled in 3hrs* *s. drawing*

$$\text{Plane A} - 400 \times 3 = 1200\text{km} - \text{cm}$$

$$\text{Plane B} - 500 \times 3 = 7.5\text{cm}$$

$$\text{Plane C} - 300 \times 3 = 900\text{km} - 4.5\text{cm}$$

(b) *Dist. BA = 12.8 0.1 x 200 = 2560km 20km*

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

$$S = 500$$

$$= 5.12\text{hrs of } 5\text{hrs}, 7.2\text{mins}$$

$$\approx 5\text{hrs}, 7\text{min (nearest min)}$$

(c) *Bearing of B from C = 360° - 20° = 340°*

$$\text{Dist. BC} = (10.9 \pm 0.1 \times 200)\text{km}$$

$$= 2180\text{km} \pm 20\text{km}$$